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ABOUT THIS RELEASE

This is a compendium of three classifications developed specifically for the compilation of standardised research and development statistics. It comprises classifications for type of activity, field of research and socio-economic objective.

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The Australian Standard Research Classification (ASRC) is the collective name for a set of three related classifications designed for use in the measurement and analysis of research and experimental development (R&D) undertaken in Australia.

This is the second edition of the ASRC and has been prepared by the Australian Bureau of Statistics (ABS) in co-operation with many organisations, including the following:

Academy of the Humanities
Academy of Social Sciences
Australian Institute of Agricultural Sciences
Australian Institute of Physics
Australian Mathematical Society
Australian Research Council
Australian Vice-Chancellors' Committee
Commonwealth Scientific and Industrial Research Organisation
Council for Australian University Tourism and Hospitality Education
Defence Science and Technology Organisation
Department of Employment, Education, Training and Youth Affairs
Department of Industry, Science and Tourism
Department of Primary Industries and Energy
Institution of Engineers
National Health and Medical Research Council
Royal Australian Chemical Institute

The contributions made by these organisations are gratefully acknowledged.

The consultative process has sought to ensure that the ASRC is widely accepted and used within Australia as an Australian Standard, not only in the compilation of R&D statistics but also in the study of Australian research generally.

T. J. Skinner
Acting Australian Statistician
August 1998

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Purpose of the ASRC

1. The Australian Standard Research Classification (ASRC) is the collective name for a set of three related classifications developed for use in the measurement and analysis of research and experimental development (R&D) undertaken in Australia, both in the public and private sectors. It allows the comparison of R&D data between sectors of the Australian economy (e.g. general government, private non-profit organisations, business enterprises and educational institutions). One of the component classifications, Research Fields, Courses and Disciplines, is designed to also allow data collected on higher education courses, units of study and teaching activity to be categorised.
2. Use of these classifications ensures that R&D statistics and statistics collected from higher education institutions are useful to governments, educational institutions, international organisations, scientific, professional or business organisations, business enterprises, community groups and private individuals.
3. To support international comparisons, it is important for the classifications to relate to those used in other countries, particularly those whose stage of social and economic development is similar to that of Australia. Therefore, the definition, scope and classification of R&D activities contained in this publication largely follow the Organisation for Economic Co-operation and Development (OECD) Proposed Standard Practice for Surveys of Research and Experimental Development, "Frascati Manual", Fifth Revision 1993.
4. The classifications contained in the ASRC are used for the compilation of R&D statistics and, commencing in 2000, will be used for classifying other selected statistics collected from higher education institutions. Details about these statistics are released in the following publications:

- Research and Experimental Development, Business Enterprises, Australian Bureau of Statistics (8104.0);
- Research and Experimental Development, General Government and Private Non-Profit Organisations, Australian Bureau of Statistics (8109.0);
- Research and Experimental Development, Higher Education Organisations, Australian Bureau of Statistics (8111.0);
- Research and Experimental Development, All Sector Summary, Australian Bureau of Statistics (8112.0); and
- publications of the Department of Employment, Education, Training and Youth Affairs.

5. The development of the classifications in this publication has been undertaken by the ABS in co-operation with major research organisations and users of research information. This consultative process has sought to ensure that the ASRC is widely accepted and used within Australia as an Australian Standard, not only in the compilation of R&D statistics but also in the study of Australian research generally.

Classifications included in the publication

6. There are three classifications in the ASRC:

- Type of Activity;
- Research Fields, Courses and Disciplines ; and
- Socio-economic Objective.

These are used in official statistics to analyse the nature of R&D undertaken in Australia. The classifications are used in conjunction with industrial and institutional sector classifications to produce a set of official statistics which support a variety of user interests. In addition, the Research Fields, Courses and Disciplines classification will be used by the Department of Employment, Education, Training and Youth Affairs to classify data collected from higher education institutions.

Type of Activity Classification (TOA)

7. This classification allows R&D activity to be categorised according to the type of research effort, namely, pure basic research, strategic basic research, applied research and experimental development.

8. Definitions and guidelines for classifying R&D by TOA are covered in Chapter 2.

Research Fields, Courses and Disciplines Classification (RFCD)

9. This classification allows both R&D activity and other activity within the higher education sector to be categorised. It allows R&D activity to be categorised according to the field of research undertaken. In this respect, it is the nature of the R&D which is being examined. In addition, the classification is to be used within the higher education sector to classify courses, units of study and teaching activity to field.

10. The categories in the classification include recognised academic disciplines and related major sub-fields taught at universities or tertiary institutions, major fields of research investigated by national research institutions and organisations, and emerging areas of study.

11. Explanatory notes, definitions and guidelines for classifying data and the full classification are covered in Chapter 3.

Socio-economic Objective Classification (SEO)

12. This classification allows R&D to be categorised according to the purpose of the R&D as perceived by the data provider (researcher). It consists of discrete economic, social, technological or scientific domains for identifying the principal purpose of the R&D. The attributes applied to the design of the SEO Classification comprise a combination of processes, products, health, education and other social and environmental aspects of particular interest.

13. Explanatory notes, definitions and guidelines for classifying R&D by socio-economic objective and the full classification are covered in Chapter 4.

Advantages of the ASRC

14. The ASRC provides a three way matrix of classification. Each R&D activity can be classified by Type of Activity, Research Fields, Courses and Disciplines and Socio-economic Objective.

15. The ASRC provides a considerable degree of flexibility in meeting the needs of a wide variety of users. The hierarchical structure of both the RFCD and SEO Classifications enables them to be applied to particular purposes at various levels.

16. If the requirement is for general policy purposes, then a variety of approaches is available. For example, by using data compiled according to both the RFCD and SEO Classifications, it is possible to identify how much R&D expenditure in any particular field of research has been devoted to a particular socio-economic objective. The ASRC helps classify multi-disciplinary work, where several disparate areas of the RFCD are usually brought together to address one area, or closely related areas of the SEO.

17. The complexity of issues addressed by R&D is such that questions of public policy often arise in a manner which cannot be readily seen in advance. The detail available in both the RFCD and SEO Classifications would be sufficient to facilitate the provision of statistics which can be used in a variety of contexts. For example, areas of key technological significance could generally be assessed using an aggregate of appropriate RFCD disciplines or subjects. It is possible, therefore, that the use of the ASRC for ABS R&D surveys may obviate or minimise the need for separate one-off R&D surveys aimed at narrow areas.

18. A particular strength of the ASRC is that it preserves comparability with much previous data in the ABS R&D series, while possessing a framework which enables comparisons with other classifications used nationally and internationally.

19. In the case of the SEO Classification, there is a strong alignment between the SEO and the Australian and New Zealand Standard Industrial Classification (ANZSIC). This is most applicable within the manufacturing subdivision of the SEO. It is possible to correlate trends in industry with levels of R&D directed towards particular industries, by using both SEO and ANZSIC data.

Definition of Research and Experimental Development

20. R&D is defined according to the OECD standard as comprising creative work undertaken on a systematic basis in order to increase the stock of knowledge, including knowledge of man, culture and society, and the use of this stock of knowledge to devise new applications.

21. An R&D activity is characterised by originality. It has investigation as a primary objective, the outcome of which is new knowledge, with or without a specific practical application, or new or improved materials, products, devices, processes or services. R&D ends when work is no longer primarily investigative.

Scope of Research and Experimental Development

22. As indicated in the Frascati Manual and as experience has shown, there are difficulties in delineating the point which clearly separates the culmination of R&D investigative work and the beginning of the implementation phase of the innovations or recommendations resulting from R&D. Errors at this point are particularly significant because, although R&D programmes require large outlays of resources, the costs of implementing innovations or recommendations resulting from R&D may also be as high or higher in many instances.

23. There are also a wide range of scientific and related activities which are not R&D, but which are closely linked with R&D in terms of organisation, resource allocation, institutional affiliation and the use or flow of information. However, activities conducted solely or primarily for the purposes of R&D support are included in R&D.

24. The activities which do not have clear boundaries with R&D are listed below.

(a) Education and training of personnel and students

Postgraduate research, including supervision of the research, is considered to be R&D. The development of new teaching methods is also regarded as R&D. However, teaching and training students, using established methods and subject knowledge, is excluded.

(b) Specialised scientific and technical information services

Specialised scientific and technical information services which are undertaken solely in support of R&D are regarded as R&D. Examples of these are scientific data collection, coding, recording, classification, dissemination, translation, analysis and bibliographic services.

These specialised services are excluded if they are undertaken independently and not solely in support of R&D.

(c) General purpose or routine data collection

Collecting data in support of R&D work is included in R&D.

However, data collection of a general nature is excluded. This is normally carried out by government agencies to record natural, biological, economic or social phenomena of general public or government interest. Examples are national population censuses, surveys of unemployment, topographical mapping and routine geographical or environmental surveys.

(d) Maintenance of national standards

Routine testing and analysis of materials, components, products, processes, soils, atmospheres, etc. for standard compliance is excluded from R&D.

(e) Feasibility studies

Feasibility studies undertaken in support of R&D are included. However, a feasibility study which involves gathering information about existing conditions, for use in deciding whether or not to implement a project, is excluded, e.g. a study to determine the viability of a petrochemical complex in a particular location.

(f) Specialised medical care

R&D includes the development of new treatments and procedures, including such developments in conjunction with advanced medical care and examinations usually carried out by university hospitals.

However, routine investigations or normal application of specialised medical knowledge, techniques or equipment are excluded from R&D. Examples of these are pathology, forensic and post mortem procedures.

(g) Patent and licence work

Patent work connected directly with R&D projects is included in R&D. However, commercial, administrative and legal work associated with patenting, copywriting and licensing, is excluded.

(h) Policy related studies

The boundary between certain policy related studies as described in the Frascati Manual and R&D is complex. In the Frascati Manual, policy related studies cover activities such as the 'analysis and assessment of existing programmes, continued analysis and monitoring of external phenomena (e.g. defence and security analysis), legislative inquiry concerned with general government departmental policy or operations'. Rigour is required to separate policy related studies which are not R&D from true R&D policy work.

Studies to determine the effects of a specific national policy to a particular economic or social condition or social group may have elements of R&D. Routine management studies or efficiency studies are excluded.

(i) Marketing and market studies

Market research and opinion polls are excluded from R&D.

(j) Mineral exploration

The development of new or vastly improved methods of data acquisition, processing and interpretation of data is included as R&D. Surveying undertaken as an integral part of an R&D project to observe geological phenomena is also regarded as R&D. However, the search for minerals using existing methods is excluded from R&D.

(k) Prototypes and pilot plants

The design, construction and testing of prototypes generally falls within the scope of R&D. However, trial production and copying of prototypes are excluded from R&D.

The construction and operation of pilot plants is part of R&D provided that these are used to obtain experience or new data for evaluating hypotheses.

Pilot plants are excluded from R&D as soon as the experimental phase is over or as soon as they are used as normal commercial production units, even if they continue to be described as 'pilot plants'. If a pilot plant is used for combined operations, the component used for R&D is to be estimated.

(l) Other activities

All other activities which are ancillary or consequential to R&D are excluded. Examples of these are interpretative commentary using existing data, forecasting, operations research as a contribution to decision making and the use of standard techniques in applied psychology to classify or diagnose human characteristics.

R&D Unit to be classified

25. There are some inherent difficulties in formulating a definition of what constitutes a unit of R&D. Because there is a lack of uniformity in organisational structures and considerable variation in the way organisations allocate resources to R&D activities, any standard definition of a unit of R&D seems certain to be somewhat theoretic. From a statistical viewpoint it is desirable that R&D expenditure be reported in the smallest cluster which can be classified to a single field of research and a single socio-economic objective. The extent to which it is not practicable to provide this detail will reduce the validity and usefulness of the classification, and the resulting R&D statistics.

26. The most common real world references to an R&D unit whose activities are to be classified are Research Program and Research Project. However, these focal units would seldom approximate the idealised unit of R&D as outlined above. They may or may not correspond to actual organisational structures. In its most simple form, a Research Project may consist of a part of the time and energy of an own account single entity (such as a PhD student).

27. There are Research Projects, especially in the social sciences, which require a multi-disciplinary approach in order to achieve a purpose. There are also Research Projects which consist of sub-projects. For example, the Commonwealth Scientific and Industrial Research Organisation (CSIRO) has cited a Research Project as often consisting of a set of sub-projects (staff) with a common purpose and one person designated as the project leader.

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1. Four types of activity applicable to R&D are recognised in this classification:

- Pure basic research
- Strategic basic research
- Applied research
- Experimental development

2. Pure basic research is experimental and theoretical work undertaken to acquire new knowledge without looking for long term benefits other than the advancement of knowledge.

3. Strategic basic research is experimental and theoretical work undertaken to acquire new knowledge directed into specified broad areas in the expectation of useful discoveries. It provides the broad base of knowledge necessary for the solution of recognised practical problems.

4. Applied research is original work undertaken primarily to acquire new knowledge with a specific application in view. It is undertaken either to determine possible uses for the findings of basic research or to determine new ways of achieving some specific and predetermined objectives.

5. Experimental development is systematic work, using existing knowledge gained from research or practical experience, that is directed to producing new materials, products or devices, to installing new processes, systems and services, or to improving substantially those already produced or installed.

Guidelines for classifying R&D by TOA

6. A Research Project is normally to be classified under only one type of activity. However, there are instances where a research project is large and could potentially be classifiable to more than one type, i.e. a project could have sub-projects with elements of both applied and experimental research. In this case, the proportion of resources attributable to each should be allocated to each type.

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Nature and purpose of the RFCD classification

1. This classification allows both R&D activity and other activity within the higher education sector to be categorised.
2. The categories in the classification include recognised academic disciplines and related major sub-fields taught at universities or tertiary institutions, major fields of research investigated by national research institutions and organisations, and emerging areas of study.
3. While this classification includes individual specialised fields of national interest, it generally reflects the overall structure of disciplinary fields.
4. R&D activity is classified according to the field of research undertaken. In this respect, it is the nature of the R&D itself which is being examined, rather than the activity of the performing unit or the purpose of the R&D. Higher education courses, units of study and teaching activity are classified according to field.

Structure of the RFCD Classification

5. The classification is arranged in a hierarchical structure. It has 24 divisions, 139 disciplines and 898 subjects.
6. The divisions are:

210000 - Science - General
 220000 - Social Sciences, Humanities and Arts - General
 230000 - Mathematical Sciences
 240000 - Physical Sciences
 250000 - Chemical Sciences
 260000 - Earth Sciences
 270000 - Biological Sciences
 280000 - Information, Computing and Communication Sciences
 290000 - Engineering and Technology
 300000 - Agricultural, Veterinary and Environmental Sciences
 310000 - Architecture, Urban Environment and Building
 320000 - Medical and Health Sciences
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 360000 - Policy and Political Science
 370000 - Studies in Human Society
 380000 - Behavioural and Cognitive Sciences
 390000 - Law, Justice and Law Enforcement
 400000 - Journalism, Librarianship and Curatorial Studies
 410000 - The Arts
 420000 - Language and Culture
 430000 - History and Archaeology
 440000 - Philosophy and Religion

7. Divisions, disciplines and subjects are each assigned a six-digit code. Divisions are uniquely identified by the first two digits and the remainder of the code is zero filled. Disciplines are uniquely identified by the first four digits and the remainder of the code is zero filled. Each subject has an unique six-digit code.

8. There are ninety-nine possible categories at the discipline and subject levels, to allow for future expansion of the classification.

Guidelines for classifying by RFCD

9. The following general procedures are aimed to ensure consistent and successful classification.

10. A research project or course is to be allocated to a RFCD subject in a hierarchical manner. This is achieved by first determining the division in which the research is being performed, then the most relevant discipline within that division and then the most relevant subject within that discipline.

11. It is vital to firstly identify the higher level classifications as some subjects, although within different disciplines, have identical titles.

12. There are two 'general' divisions (210000 Science - General and 220000 Social Sciences, Humanities and Arts - General) and one 'general' discipline (320100 Medicine - General) to enable classification of areas of study which cannot be allocated to more specific categories.

Relationship with other classifications

13. The RFCD classification has been designed primarily to meet the needs of the ABS and the Department of Employment, Education, Training and Youth Affairs for classifying courses and research projects to field of study/research and classifying units of study to discipline. It will replace the Field of Research (FOR) classification, included in the 1993 edition of the ASRC, and the Field of Study Classification of Higher Education Courses (FOSCHEC).

14. Other classifications which are related to fields of study are:

- the ABS Classification of Qualifications (ABSCQ) which, although primarily designed as a classification of qualifications already obtained, may also be used to classify educational courses which lead to these qualifications;
- the Field of Study Classification of Tertiary Education Courses (FOSCTEC) which is based on FOSCHEC with some minor variations to meet the needs of the vocational education and training sector; and
- the International Standard Classification of Education (ISCED) which is a classification of educational programmes rather than qualifications.

15. The ABS is currently undertaking a comprehensive review of the ABSCQ with the aim of replacing it with an Australian Standard Classification of Education (ASCED). The review will be completed by late 1999. The ASCED will be consistent with the RFCD with additional categories to cover uniquely vocational education and training sector activities.

16. For further information, or advice on the relationship between these classifications, contact the Director, Classifications and Data Standards Section, ABS on (02) 6252 6300.

17. Three major field of research classifications are:

- the OECD Fields of Science and Technology Classification, a two level classification incorporated into the fifth revision of the OECD Proposed Standard Practice for Surveys of Research and Experimental Development, Frascati Manual;
- the European Economic Community (EEC) Sciences Classification, a three level classification used within certain member countries of the EEC, particularly in Belgium; and
- the US National Science Foundation (NSF) Classification, a two level classification used by that Foundation in the measurement of national science indicators.

18. For advice on the relationship between these classifications and the RFCD, contact the Assistant Director, Research and Development Statistics, ABS on (02) 6252 5627.

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Division 210000 - Science (General) is for use in classifying general courses which cannot be allocated to a more specific division. Only the code 210000 is required for this purpose, no further breakdown is required.

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Division 220000 - Social Sciences, Humanities and Arts - General is for use in classifying general courses which cannot be allocated to a more specific division. Only the code 220000 is required for this purpose, no further breakdown is required.

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Classification Structure - Division 230000 - Mathematical Sciences

Discipline	Subject	Description
230100		
		Mathematics
	230101	Mathematical Logic, Set Theory, Lattices and Combinatorics
	230102	Number Theory and Field Theory
	230103	Rings and Algebras
	230104	Category Theory, K Theory, Homological Algebra
	230105	Group Theory and Generalisations (incl Topological Groups and Lie Groups)
	230106	Real and Complex Functions
	230107	Differential, Difference and Integral Equations
	230108	

		Harmonic and Fourier Analysis
230109		
		Functional Analysis
230110		
		Calculus of Variations and Control Theory
230111		
		Geometry
230112		
		Topology and Manifolds
230113		
		Dynamical Systems
230114		
		Functions of Several Complex Variables
230115		
		Approximation Theory
230116		
		Numerical Analysis
230117		
		Operations Research
230118		
		Optimisation
230119		
		Systems Theory and Control
230199		
		Mathematics not elsewhere classified
230200		
		Statistics
230201		
		Probability Theory
230202		
		Stochastic Analysis and Modelling
230203		
		Statistical Theory
230204		
		Applied Statistics
230299		
		Statistics not elsewhere classified
239900		
		Other Mathematical Sciences
239901		
		Biological Mathematics
239902		
		Actuarial Mathematics
239903		
		Risk theory

239904	Theory of Graduation
239999	Mathematical Sciences not elsewhere classified

Definitions

Division 230000 - Mathematical Sciences, covers mathematics, statistics and other mathematical sciences. This division has three disciplines:

230100 - Mathematics
 230200 - Statistics
 239900 - Other Mathematical Sciences

Exclusions:

- (a) Mathematics associated with computer science is included in Division 280000 Information, Computing and Communication Sciences; and
- (b) mathematics and statistics applied in economics are included in Division 340000 Economics.

Discipline 230100 - Mathematics

This discipline covers mathematics. This discipline has twenty subjects:

230101 - Mathematical Logic, Set Theory, Lattices and Combinatorics
 230102 - Number Theory and Field Theory
 230103 - Rings and Algebras
 230104 - Category Theory, K Theory, Homological Algebra
 230105 - Group Theory and Generalisations (incl. Topological Groups and Lie Groups)
 230106 - Real and Complex Functions
 230107 - Differential, Difference and Integral Equations
 230108 - Harmonic and Fourier Analysis
 230109 - Functional Analysis
 230110 - Calculus of Variations and Control Theory
 230111 - Geometry
 230112 - Topology and Manifolds
 230113 - Dynamical Systems
 230114 - Functions of Several Complex Variables
 230115 - Approximation Theory
 230116 - Numerical Analysis
 230117 - Operations Research
 230118 - Optimisation
 230119 - Systems Theory and Control
 230199 - Mathematics not elsewhere classified

Exclusions:

- (a) Mathematics associated with computer science is included in Division 280000 Information, Computing and Communication Sciences;
- (b) geodesy is included in Discipline 291000 Geomatic Engineering; and
- (c) mathematics applied in economics is included in Division 340000 Economics.

Discipline 230200 - Statistics

This discipline covers statistics. This discipline has five subjects:

- 230201 - Probability Theory
- 230202 - Stochastic Analysis and Modelling
- 230203 - Statistical Theory
- 230204 - Applied Statistics
- 230299 - Statistics not elsewhere classified

Exclusions:

Econometrics, time series analysis and related disciplines are included in Discipline 340400 Econometrics.

Discipline 239900 - Other Mathematical Sciences

This discipline covers any mathematical sciences not elsewhere classified. This discipline has five subjects:

- 239901 - Biological Mathematics
- 239902 - Actuarial Mathematics
- 239903 - Risk Theory
- 239904 - Theory of Graduation
- 239999 - Mathematical Sciences not elsewhere classified

Exclusions:

- (a) Mathematics associated with computer science is included in Division 280000 Information, Computing and Communication Sciences;
- (b) mathematics and statistics applied in economics are included in Division 340000 Economics; and
- (c) life insurance mathematics is included in Discipline 350300 Banking, Finance and Investment.

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Classification Structure - Division 240000 - Physical Sciences

Discipline	Subject	Description
240100		Astronomical Sciences.
	240101	Astronomy and Astrophysics
	240102	Cosmic Ray Physics
	240199	Astronomical Sciences not elsewhere classified
240200		Theoretical and Condensed Matter Physics
	240201	Theoretical Physics
	240202	Condensed Matter Physics - Structural Properties
	240203	Condensed Matter Physics - Electronic and Magnetic Properties; Superconductivity

240300	240204	Condensed Matter Physics - Other
	Atomic and Molecular Physics; Nuclear and Particle Physics; Plasma Physics	
	240301	Atomic and Molecular Physics
	240302	Nuclear and Particle Physics
	240303	Plasmas and Electrical Discharges
	240304	Other Plasma Physics
240400	Optical Physics	
	240401	Optics and Opto-electronic Physics
	240402	.Quantum Optics and Lasers
	240499	Optical Physics not elsewhere classified
240500	Classical Physics	
	240501	Acoustics and Acoustical Devices; Waves
	240502	Fluid Physics
	240503	Thermodynamics and Statistical Physics
	240504	Electrostatics and Electrodynamics
	240599	Classical Physics not elsewhere classified
249900	Other Physical Sciences	
	249901	Biophysics
	249902	Medical Physics
	249903	Instruments and Techniques
	249999	Physical Sciences not elsewhere classified

Definitions

Division 240000 - Physical Sciences, covers the physical sciences. It includes biophysics (other than human biophysics) and medical

physics. This division has six disciplines:

240100 - Astronomical Sciences

240200 - Theoretical and Condensed Matter Physics

240300 - Atomic and Molecular Physics; Nuclear and Particle Physics; Plasma Physics

240400 - Optical Physics

240500 - Classical Physics

249900 - Other Physical Sciences

Exclusions:

(a) Geophysics is included in Discipline 260200 Geophysics;

(b) ionospheric and magnetospheric physics are included in Discipline 260600 Atmospheric Sciences;

(c) technological aspects of the physical sciences are included in the appropriate disciplines in Division 290000 Engineering and Technology;

(d) soil physics is included in Discipline 300100 Soil and Water Sciences; and

(e) human biophysics is included in Discipline 320600 Medical Physiology.

Discipline 240100 - Astronomical Sciences

This discipline covers astronomical sciences, including cosmology. This discipline has three subjects:

240101 - Astronomy and Astrophysics

240102 - Cosmic Ray Physics

240199 - Astronomical Sciences not elsewhere classified

Exclusions:

Remote sensing and satellite technology are included in Discipline 290200 Aerospace Engineering.

Discipline 240200 - Theoretical and Condensed Matter Physics

This discipline covers theoretical and condensed matter physics. This discipline has four subjects:

240201 - Theoretical Physics

240202 - Condensed Matter Physics - Structural Properties

240203 - Condensed Matter Physics - Electronic and Magnetic Properties; Superconductivity

240204 - Condensed Matter Physics - Other

Discipline 240300 - Atomic and Molecular Physics; Nuclear and Particle Physics; Plasma Physics

This discipline covers atomic, molecular, nuclear, particle and plasma physics. This discipline has four subjects:

240301 - Atomic and Molecular Physics

240302 - Nuclear and Particle Physics

240303 - Plasmas and Electrical Discharges

240304 - Other Plasma Physics

Exclusions:

Related chemicals are included in Disciplines 250100 Physical Chemistry (incl. Structural) and 250600 Theoretical and Computational Chemistry.

Discipline 240400 - Optical Physics

This discipline covers optical physics. This discipline has three subjects:

240401 - Optics and Opto-electronic Physics

240402 - Quantum Optics and Lasers

240499 - Optical Physics not elsewhere classified

Exclusions:

Communications technologies are included in Discipline 291700 Communications Technologies.

Discipline 240500 - Classical Physics

This discipline covers classical physics. This discipline has five subjects:

240501 - Acoustics and Acoustical Devices; Waves

240502 - Fluid Physics

240503 - Thermodynamics and Statistical Physics

240504 - Electrostatics and Electrodynamics

240599 - Classical Physics not elsewhere classified

Exclusions:

Communications technologies are included in Discipline 291700 Communications Technologies.

Discipline 249900 - Other Physical Sciences

This discipline covers any physical sciences not elsewhere classified. It includes biophysics (other than human biophysics), medical physics and instruments and techniques.

This discipline has four subjects:

249901 - Biophysics

249902 - Medical Physics

249903 - Instruments and Techniques

249999 - Physical Sciences not elsewhere classified

Exclusions:

(a) Geophysics is included in Discipline 260200 Geophysics;

(b) ionospheric and magnetospheric physics are included in Discipline 260600 Atmospheric Sciences;

(c) technological aspects of the physical sciences are included in the appropriate disciplines in Division 290000 Engineering and Technology;

(d) soil physics is included in Discipline 300100 Soil and Water Sciences; and

(e) human biophysics is included in Discipline 320600 Medical Physiology

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Classification Structure - Division 250000 - Chemical Sciences

Discipline	Subject	Description
250100		Physical Chemistry (Incl. Structural)
	250101	Chemical Thermodynamics and Energetics
	250102	Chemistry of Catalysis
	250103	Colloid and Surface Chemistry
	250104	Chemical Spectroscopy
	250105	Structural Chemistry
	250106	Mechanisms of Reactions
	250107	Electrochemistry
	250199	

250200		Physical Chemistry not elsewhere classified
		Inorganic Chemistry
	250201	Transition Metal Chemistry
	250202	Main Group Metal Chemistry
	250203	Solid State Chemistry
	250204	Bioinorganic Chemistry
	250205	Non-Metal Chemistry
	250206	f-Block Chemistry
	250299	Inorganic Chemistry not elsewhere classified
		Organic Chemistry
250300	250301	Organic Chemical Synthesis
	250302	Biological and Medical Chemistry
	250303	.Physical Organic Chemistry
	250399	Organic Chemistry not elsewhere classified
		Analytical Chemistry
250400	250401	Separation Science
	250402	Analytical Spectrometry
	250403	Electroanalytical Chemistry
	250404	Flow Analysis
	250405	Sensor (Chemical and Bio-) Technology
	250406	Immunological and Bioassay Methods
	250407	Other Instrumental Methods
	250408	Chemometrics

	250409	Quality Assurance, Traceability and Metrological Chemistry
	250499	Analytical Chemistry not elsewhere classified
250500		Macromolecular Chemistry
	250501	Synthesis of Macromolecules
	250502	Physical Chemistry of Macromolecules
	250503	Characterisation of Macromolecules
	250504	Polymerisation Mechanisms
	250599	Macromolecular Chemistry not elsewhere classified
250600		Theoretical and Computational Chemistry
	250601	Quantum Chemistry
	250602	Statistical Mechanics
	250603	Reaction Kinetics and Dynamics
	250604	Radiation and Matter
	250605	Theory of Materials
	250606	Macromolecular Design
	250699	Theoretical and Computational Chemistry not elsewhere classified
259900		Other Chemical Sciences
	259901	Organometallic Chemistry
	259902	Environmental Chemistry (incl. Atmospheric Chemistry)
	259903	Industrial Chemistry
	259904	Supramolecular Chemistry
	259999	Chemical Sciences not elsewhere classified

Definitions

Division 250000 - Chemical Sciences, covers the chemical sciences. It includes immunological and bioassay methods. It also includes atmospheric chemistry. This division has seven disciplines:

250100 - Physical Chemistry (Incl. Structural)
250200 - Inorganic Chemistry
250300 - Organic Chemistry
250400 - Analytical Chemistry
250500 - Macromolecular Chemistry
250600 - Theoretical and Computational Chemistry
259900 - Other Chemical Sciences

Exclusions:

- (a) Geochemistry is included in Discipline 260300 Geochemistry;
- (b) biochemistry is included in Discipline 270100 Biochemistry and Cell Biology;
- (c) chemical engineering is included in Discipline 290600 Chemical Engineering;
- (d) soil chemistry is included in Discipline 300100 Soil and Water Sciences; and
- (e) medical biochemistry and clinical chemistry is included in Discipline 320300 Medical Biochemistry and Clinical Chemistry.

Discipline 250100 - Physical Chemistry (Incl. Structural)

This discipline covers physical chemistry. This discipline has eight subjects:

250101 - Chemical Thermodynamics and Energetics
250102 - Chemistry of Catalysis
250103 - Colloid and Surface Chemistry
250104 - Chemical Spectroscopy
250105 - Structural Chemistry
250106 - Mechanisms of Reactions
250107 - Electrochemistry
250199 - Physical Chemistry not elsewhere classified

Exclusions:

- (a) Mechanical and industrial engineering are included in Discipline 290500 Mechanical and Industrial Engineering;
- (b) chemical engineering is included in Discipline 290600 Chemical Engineering; and
- (c) material sciences are included in Disciplines 291300 Metallurgy, 291400 Materials Engineering and 291500 Biomedical engineering.

Discipline 250200 - Inorganic Chemistry

This discipline covers inorganic chemistry. This discipline has seven subjects:

250201 - Transition Metal Chemistry
250202 - Main Group Metal Chemistry
250203 - Solid State Chemistry
250204 - Bioinorganic Chemistry
250205 - Non-Metal chemistry
250206 - f-Block Chemistry
250299 - Inorganic Chemistry not elsewhere classified

Exclusions:

Organometallic chemistry, environmental chemistry and industrial chemistry are included in Discipline 259900 Other Chemical Sciences.

Discipline 250300 - Organic Chemistry

This discipline covers organic chemistry, including biological and medical chemistry. This discipline has four subjects:

250301 - Organic Chemical Synthesis
250302 - Biological and Medical Chemistry
250303 - Physical Organic Chemistry
250399 - Organic Chemistry not elsewhere classified

Exclusions:

- (a) Immunological and bioassay methods are included in Discipline 250400 Analytical Chemistry;
- (b) organometallic chemistry, environmental chemistry and industrial chemistry are included in Discipline 259900 Other Chemical Sciences;
- (c) biochemistry is included in Discipline 270100 Biochemistry and Cell Biology;
- (d) medical biochemistry and clinical chemistry are included in Discipline 320300 Medical Biochemistry and Clinical Chemistry; and
- (e) pharmacology for human use is included in Discipline 320500 Pharmacology and Pharmaceutical Sciences.

Discipline 250400 - Analytical Chemistry

This discipline covers analytical chemistry. This discipline has ten subjects:

250401 - Separation Science
250402 - Analytical Spectrometry

250403 - Electroanalytical Chemistry
250404 - Flow Analysis
250405 - Sensor (Chemical and Bio-) Technology
250406 - Immunological and Bioassay Methods
250407 - Other Instrumental Methods
250408 - Chemometrics
250409 - Quality Assurance, Traceability and Metrological Chemistry
250499 - Analytical Chemistry not elsewhere classified

Discipline 250500 - Macromolecular Chemistry

This discipline covers macromolecular chemistry. This discipline has five subjects:

250501 - Synthesis of Macromolecules
250502 - Physical Chemistry of Macromolecules
250503 - Characterisation of Macromolecules
250504 - Polymerisation of Mechanisms
250599 - Macromolecular Chemistry not elsewhere classified

Discipline 250600 - Theoretical and Computational Chemistry

This discipline covers theoretical chemistry and computational chemistry. This discipline has seven subjects:

250601 - Quantum Chemistry
250602 - Statistical Mechanics
250603 - Reaction Kinetics and Dynamics
250604 - Radiation and Matter
250605 - Theory of Materials
250606 - Macromolecular Design
250699 - Theoretical and Computational Chemistry not elsewhere classified

Discipline 259900 - Other Chemical Sciences

This discipline covers organometallic chemistry, environmental chemistry (incl. atmospheric chemistry), industrial chemistry and any residual chemical sciences not elsewhere classified. This discipline has five subjects:

259901 - Organometallic Chemistry
259902 - Environmental Chemistry (incl. Atmospheric Chemistry)
259903 - Industrial Chemistry
259904 - Supramolecular Chemistry
259999 - Chemical Sciences not elsewhere classified

Exclusions:

Soil chemistry is included in Discipline 300100 Soil and Water Sciences.

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Classification Structure - Division 260000 - Earth Sciences

Discipline	Subject	Description
260100		Geology
	260101	Mineralogy and Crystallography
	260102	Igneous and Metamorphic Petrology
	260103	Vulcanology
	260104	Sedimentology
	260105	Petroleum Geology
	260106	Ore Deposit Petrology
	260107	Structural Geology
	260108	

		Geotectonics
	260109	
		Geochronology
	260110	
		Biostratigraphy
	260111	
		Other Stratigraphy (incl. Sequence Stratigraphy)
	260112	
		Palaeontology
	260113	
		Palynology
	260114	
		Geomorphology
	260115	
		Glaciology
	260199	
		Geology not elsewhere classified
260200		
		Geophysics
	260201	
		Gravity
	260202	
		Geomagnetism
	260203	
		Electromagnetism
	260204	
		Petrophysics
	260205	
		Explosion Seismology
	260206	
		Earthquake Seismology
	260207	
		.Radiometrics
	260299	
		Geophysics not elsewhere classified
260300		
		Geochemistry
	260301	
		Geochronology and Isotope Geochemistry
	260302	
		Exploration Geochemistry
	260303	
		Organic Geochemistry not elsewhere classified
	260304	
		Inorganic Geochemistry not elsewhere classified

	260399	Geochemistry not elsewhere classified
260400		Oceanography
	260401	Biological Oceanography
	260402	Chemical Oceanography
	260403	Physical Oceanography
	260499	Oceanography not elsewhere classified
260500		Hydrology
	260501	Groundwater Hydrology
	260502	Surfacewater Hydrology
	260599	Hydrology not elsewhere classified
260600		Atmospheric Sciences
	260601	Meteorology
	260602	Climatology (incl. Palaeoclimatology)
	260603	Ionospheric and Magnetospheric Physics
	260699	Atmospheric Sciences not elsewhere classified
269900		Other Earth Sciences
	269901	Physical Geography
	269999	Earth Sciences not elsewhere classified

Definitions

Division 260000 - Earth Sciences, covers the earth sciences. This division has seven disciplines:

260100 - Geology
260200 - Geophysics
260300 - Geochemistry
260400 - Oceanography
260500 - Hydrology

260600 - Atmospheric Sciences

269900 - Other Earth Sciences

Exclusions:

(a) Environmental and atmospheric chemistry are included in Discipline 259900 Other Chemical Sciences;

(b) mining and mineral processing are included in Discipline 290700 Resources Engineering;

(c) metallurgy is included in Discipline 291300 Metallurgy;

(d) materials engineering is included in Discipline 291400 Materials Engineering; and

(e) soil and water sciences (incl. applied hydrology) are included in Discipline 300100 Soil and Water Sciences.

Discipline 260100 - Geology

This discipline covers geology. It includes palaeontology (incl. palaeozoology and palaeobotany) and palynology (other than palynology associated with palaeoecological studies). This discipline has sixteen subjects:

260101 - Mineralogy and Crystallography

260102 - Igneous and Metamorphic Petrology

260103 - Vulcanology

260104 - Sedimentology

260105 - Petroleum Geology

260106 - Ore Deposit Petrology

260107 - Structural Geology

260108 - Geotectonics

260109 - Geochronology

260110 - Biostratigraphy

260111 - Other Stratigraphy (incl. Sequence Stratigraphy)

260112 - Palaeontology

260113 - Palynology

260114 - Geomorphology

260115 - Glaciology

260199 - Geology not elsewhere classified

Exclusions:

(a) The chemical aspects of crystallography and solid state chemistry are included in Discipline 250200 Inorganic Chemistry;

(b) palaeoclimatology is included in Discipline 260600 Atmospheric Sciences;

(c) palaeoecology and palynology associated with palaeoecological studies are included in Discipline 270700 Ecology and Evolution;

(d) palynology associated with limnological studies is also included in Discipline 270700 Ecology and Evolution;

(e) mining and mineral processing are included in Discipline 290700 Resources Engineering;

(f) metallurgy is included in Discipline 291300 Metallurgy; and

(g) materials engineering is included in Discipline 291400 Materials Engineering.

Discipline 260200 - Geophysics

This discipline covers geophysics. This discipline has eight subjects:

260201 - Gravity

260202 - Geomagnetism

260203 - Electromagnetism

260204 - Petrophysics

260205 - Explosion Seismology

260206 - Earthquake Seismology

260207 - Radiometrics

260299 - Geophysics not elsewhere classified

Discipline 260300 - Geochemistry

This discipline covers geochemistry. This discipline has five subjects:

260301 - Geochronology and Isotope Geochemistry

260302 - Exploration Geochemistry

260303 - Organic Geochemistry not elsewhere classified

260304 - Inorganic Geochemistry not elsewhere classified

260399 - Geochemistry not elsewhere classified

Discipline 260400 - Oceanography

This discipline covers oceanography. This discipline has four subjects:

260401 - Biological Oceanography

260402 - Chemical Oceanography

260403 - Physical Oceanography

260499 - Oceanography not elsewhere classified

Exclusions:

Marine ecology is included in Discipline 270700 Ecology and Evolution.

Discipline 260500 - Hydrology

This discipline covers hydrology, other than applied hydrology. This discipline has three subjects:

260501 - Groundwater Hydrology

260502 - Surfacewater Hydrology

260599 - Hydrology not elsewhere classified

Exclusions:

Applied hydrology is included in Discipline 300100 Soil and Water Sciences.

Discipline 260600 - Atmospheric Sciences

This discipline covers atmospheric sciences, other than atmospheric chemistry. This discipline has four subjects:

260601 - Meteorology

260602 - Climatology (incl. Palaeoclimatology)

260603 - Ionospheric and Magnetospheric Physics

260699 - Atmospheric Sciences not elsewhere classified

Exclusions:

Atmospheric chemistry is included in Discipline 259900 Other Chemical Sciences.

Discipline 269900 - Other Earth Sciences

This discipline covers earth sciences not elsewhere classified. It includes physical geography. This discipline has two subjects:

269901 - Physical Geography

269999 - Earth Sciences not elsewhere classified

Exclusions:

(a) The physical aspects of limnology are included in Discipline 270700 Ecology and Evolution; and

(b) environmental management and rehabilitation are included in Discipline 300800 Environmental Sciences.

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Classification Structure - Division 270000 - Biological Sciences

Discipline	Subject	Description
270100		Biochemistry and Cell Biology
	270101	Analytical Biochemistry
	270102	Cell Metabolism
	270103	Protein Targeting and Signal Transduction
	270104	Membrane Biology
	270105	Cellular Interactions (incl. Adhesion, Matrix, Cell Wall)
	270106	Cell Development (incl. Cell Division and Apoptosis)
	270107	Cell Neurochemistry
	270108	

270200	270199	Enzymes
		Biochemistry and Cell Biology not elsewhere classified
		Genetics
	270201	Gene Expression
	270202	Genome Structure
	270203	Population and Ecological Genetics
	270204	Anthropological Genetics
	270205	Genetic Development (incl. Sex Determination)
	270206	Genetic Immunology
	270207	Quantitative Genetics
	270208	Molecular Evolution
	270209	Meiosis and Recombination
	270210	Neurogenetics
	270299	Genetics not elsewhere classified
270300		Microbiology
	270301	Bacteriology
	270302	Archaeobacteriology
	270303	Virology
	270304	Infectious Agents
	270305	Mycology
	270306	Microbial Genetics
	270307	Microbial Ecology
	270308	Microbial Systematics, Taxonomy and Phylogeny

270400	270399	Microbiology not elsewhere classified
	Botany	
	270401	Plant Systematics, Taxonomy and Phylogeny
	270402	Plant Physiology
	270403	Plant Pathology
	270404	Phycology
	270499	Botany not elsewhere classified
270500	Zoology	
	270501	Animal Systematics, Taxonomy and Phylogeny
	270502	Neurobiology
	270503	Animal Anatomy and Histology
	270504	Invertebrate Biology
	270599	Zoology not elsewhere classified
270600	Physiology	
	270601	Animal Physiology - Biophysics
	270602	Animal Physiology - Cell
	270603	Animal Physiology - Systems
	270604	Comparative Physiology
	270699	Physiology not elsewhere classified
270700	Ecology and Evolution	
	270701	Freshwater Ecology
	270702	Marine and Estuarine Ecology (incl. Marine Ichthyology)
	270703	

		Terrestrial Ecology
	270704	Landscape Ecology
	270705	Palaeoecology
	270706	Life Histories (incl. Population Ecology)
	270707	Sociobiology and Behavioural Ecology
	270708	Conservation and Biodiversity
	270709	Biogeography
	270799	Ecology and Evolution not elsewhere classified
270800		Biotechnology
	270801	Gene Therapy
	270802	Diagnostic Applications
	270803	Transgenesis
	270804	Genetic Technologies: Transformation, Site-directed Mutagenesis, etc.
	270805	Genetic Engineering and Enzyme Technology
	270899	Biotechnology not elsewhere classified
279900		Other Biological Sciences
	279901	Global Change Biology
	279999	Biological Sciences not elsewhere classified

Definitions

Division 270000 - Biological Sciences, covers the biological or life sciences, other than agricultural sciences or medical and health sciences. This division has nine disciplines:

270100 - Biochemistry and Cell Biology
270200 - Genetics
270300 - Microbiology
270400 - Botany

270500 - Zoology
270600 - Physiology
270700 - Ecology and Evolution
270800 - Biotechnology
279900 - Other Biological Sciences

Exclusions:

(a) Biological or life sciences associated with agricultural and veterinary sciences, forestry, commercial fishing or other aspects of primary production are included in Division 300000 Agricultural, Veterinary and Environmental Sciences; and

(b) biological or life sciences associated with human health and medicine are included in Division 320000 Medical and Health Sciences.

Discipline 270100 - Biochemistry and Cell Biology

This discipline covers biochemistry or the chemistry of living organisms. It includes cell biology and membrane biology. This discipline has nine subjects:

270101 - Analytical Biochemistry
270102 - Cell Metabolism
270103 - Protein Targeting and Signal Transduction
270104 - Membrane Biology
270105 - Cellular Interactions (incl. Adhesion, Matrix, Cell Wall)
270106 - Cell Development (incl. Cell Division and Apoptosis)
270107 - Cell Neurochemistry
270108 - Enzymes
270199 - Biochemistry and Cell Biology not elsewhere classified

Exclusions:

(a) Plant biochemistry is included in Discipline 300200 Crop and Pasture Production; and

(b) biochemistry associated with medical science is included in Discipline 320300 Medical Biochemistry and Clinical Chemistry.

Discipline 270200 - Genetics

This discipline covers genetics and heredity. This discipline has eleven subjects:

270201 - Gene Expression
270202 - Genome Structure
270203 - Population and Ecological Genetics
270204 - Anthropological Genetics
270205 - Genetic Development (incl. Sex Determination)
270206 - Genetic Immunology
270207 - Quantitative Genetics

270208 - Molecular Evolution
270209 - Meiosis and Recombination
270210 - Neurogenetics
270299 - Genetics not elsewhere classified

Exclusions:

- (a) Biotechnology (incl. genetic engineering) is included in Discipline 270800 Biotechnology;
- (b) plant genetics is included in Disciplines 300200 Crop and Pasture Production and 300300 Horticulture;
- (c) animal genetics associated with animal breeding is included in Discipline 300400 Animal Production; and
- (d) genetics associated with medical science is included in Discipline 321000 Clinical Sciences.

Discipline 270300 - Microbiology

This discipline covers microbiology or the study of microscopic organisms including bacteriology, parasitology and virology. This discipline has nine subjects:

270301 - Bacteriology
270302 - Archaeobacteriology
270303 - Virology
270304 - Infectious Agents
270305 - Mycology
270306 - Microbial Genetics
270307 - Microbial Ecology
270308 - Microbial Systematics, Taxonomy and Phylogeny
270399 - Microbiology not elsewhere classified

Exclusions:

- (a) Veterinary microbiology is included in Discipline 300500 Veterinary Sciences; and
- (b) medical microbiology is included in Discipline 320400 Medical Microbiology.

Discipline 270400 - Botany

This discipline covers botany and related plant sciences. It includes:

- mycology which for the purpose of this classification includes the study of lichen;
- plant pathology other than associated with plant protection procedures in the field; and
- phycology (incl. algae and marine grasses).

This discipline has five subjects:

270401 - Plant Systematics, Taxonomy and Phylogeny

270402 - Plant Physiology

270403 - Plant Pathology

270404 - Phycology

270499 - Botany not elsewhere classified

Exclusions:

(a) Palaeobotany and palynology (other than palynology associated with ecological studies) are included in Discipline 260100 Geology;

(b) plant ecology and palynology associated with ecological studies are included in Discipline 270700 Ecology and Evolution; and

(c) plant science or plant pathology associated with agriculture, forestry or primary production is included in the appropriate disciplines in Division 300000 Agricultural Sciences.

Discipline 270500 - Zoology

This discipline covers zoology. It includes:

- the study of terrestrial vertebrates (other than human), non-insect terrestrial invertebrates, ornithology, herpetology and freshwater ichthyology;
- ethology; and
- entomology

This discipline has five subjects:

270501 - Animal Systematics, Taxonomy and Phylogeny

270502 - Neurobiology

270503 - Animal Anatomy and Histology

270504 - Invertebrate Biology

270599 - Zoology not elsewhere classified

Exclusions:

(a) Palaeontology is included in Discipline 260100 Geology;

(b) animal physiology is included in Discipline 270600 Physiology;

(c) the use of live animals for purposes of primary production is included in Discipline 300400 Animal Production;

(d) fisheries and aquaculture for primary production are included in Discipline 300700 Fisheries Sciences;

(e) the human immune system is included in Discipline 320200 Immunology;

(f) the human nervous system is included in Discipline 320700 Neurosciences; and

(g) the use of live animals or material from live animals for medical research is included in Discipline 329900 Other Medical and Health Sciences.

Discipline 270600 - Physiology

This discipline covers physiology other than medical or plant. This discipline has five subjects:

270601 - Animal Physiology - Biophysics

270602 - Animal Physiology - Cell

270603 - Animal Physiology - Systems

270604 - Comparative Physiology

270699 - Physiology not elsewhere classified

Exclusions:

(a) Plant physiology is included in Discipline 270400 Botany;

(b) physiology related to specific aspects of animal production or veterinary practice is included in the appropriate disciplines in Division 300000 Agricultural, Veterinary and Environmental Sciences; and

(c) medical physiology is included in Discipline 320600 Medical Physiology.

Discipline 270700 - Ecology and Evolution

This discipline covers ecology or ecological systems, whether freshwater, marine or terrestrial, and evolutionary biology. It includes:

- plant or animal ecology;
- limnology and ecological studies (incl. palynology) of freshwater bodies such as lakes and ponds;
- palaeoecology (incl. palynology associated with palaeoecological studies); and
- life histories (incl. population ecology).

This discipline has ten subjects:

270701 - Freshwater Ecology

270702 - Marine and Estuarine Ecology (incl. Marine Ichthyology)

270703 - Terrestrial Ecology

270704 - Landscape Ecology
270705 - Palaeoecology
270706 - Life Histories (incl. Population Ecology)
270707 - Sociobiology and Behavioural Ecology
270708 - Conservation and Biodiversity
270709 - Biogeography
270799 - Ecology and Evolution not elsewhere classified

Exclusions:

(a) Palaeontology is included in Discipline 260100 Geology; and

(b) palynology in association with geological studies is also included in Discipline 260100 Geology.

Discipline 270800 - Biotechnology

This discipline covers biotechnology (incl. genetic engineering). This discipline has six subjects:

270801 - Gene Therapy
270802 - Diagnostic Applications
270803 - Transgenesis
270804 - Genetic Technologies: Transformation, Site-directed Mutagenesis, etc.
270805 - Genetic Engineering and Enzyme Technology
270899 - Biotechnology not elsewhere classified

Exclusions:

(a) Industrial biotechnology is included in Discipline 290100 Industrial Biotechnology and Food Sciences; and

(b) medical biotechnology is included in Discipline 329900 Other Medical and Health Sciences.

Discipline 279900 - Other Biological Sciences

This discipline covers biological sciences not elsewhere classified. This discipline has two subjects:

279901 - Global Change Biology
279999 - Biological Sciences not elsewhere classified

Exclusions:

Phycology (incl. marine grasses) is included in Discipline 270400 Botany.

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Classification Structure - Division 280000 - Information, Computing and Communication Sciences

Discipline	Subject	Description
280100		Information Systems
	280101	Information Systems Organisation
	280102	Information Systems Management
	280103	Information Storage, Retrieval and Management
	280104	Computer-Human Interaction
	280105	Interfaces and Presentation (excl. Computer-Human Interaction)
	280106	Interorganisational Information Systems
	280107	Global Information Systems

	280108	Database Management
	280109	Decision Support and Group Support Systems
	280110	Systems Theory
	280111	Conceptual Modelling
	280112	Information Systems Development Methodologies
	280199	Information Systems not elsewhere classified
280200		Artificial Intelligence and Signal and Image Processing
	280201	Expert Systems
	280202	Computer Graphics
	280203	Image Processing
	280204	Signal Processing
	280205	Text Processing
	280206	Speech Recognition
	280207	Pattern Recognition
	280208	Computer Vision
	280209	Intelligent Robotics
	280210	Simulation and Modelling
	280211	Virtual Reality and Related Simulation
	280212	Neural Networks, Genetic Algorithms and Fuzzy Logic
	280213	Other Artificial Intelligence
280300		Computer Software
	280301	Programming Techniques
	280302	

		Software Engineering
	280303	
		Programming Languages
	280304	
		Operating Systems
	280305	
		Multimedia Programming
	280399	
		Computer Software not elsewhere classified
280400		
		Computation Theory and Mathematics
	280401	
		Analysis of Algorithms and Complexity
	280402	
		Mathematical Logic and Formal Languages
	280403	
		Logics and Meanings of Programs
	280404	
		Numerical Analysis
	280405	
		Discrete Mathematics
	280406	
		Mathematical Software
	280499	
		Computation Theory and Mathematics not elsewhere classified
280500		
		Data Format
	280501	
		Data Structures
	280502	
		Data Storage Representations
	280503	
		Files
	280504	
		Data Encryption
	280505	
		Data Security
	280506	
		Coding and Information Theory
	280599	
		Data Format not elsewhere classified
289900		
		Other Information, Computing and Communication Sciences
	289999	
		Other Information, Computing and Communication Sciences

Definitions

Division 280000 covers information, computing and communication sciences.

For the purposes of this classification, the following fields are included: mathematics associated with computer science and the application of psychology to an understanding of computer-human interface. This division has six disciplines:

280100 - Information Systems

280200 - Artificial Intelligence and Signal and Image Processing

280300 - Computer Software

280400 - Computation Theory and Mathematics

280500 - Data Format

289900 - Other Information, Computing and Communication Sciences

Exclusions:

(a) The application of information and computer sciences other than specifically for information, computer sciences and technologies is included in other appropriate disciplines, e.g. computer modelling for atmospheric research is included in Discipline 260600 Atmospheric Sciences; software development for forest management is included in Discipline 300600 Forestry Sciences;

(b) robotics and mechatronics, CAD/CAM systems concerned with manufacturing and process technologies are included in Discipline 290300 Manufacturing Engineering;

(c) computer hardware is included in Discipline 291600 Computer Hardware; and

(d) communications technologies are included in Discipline 291700 Communications Technologies.

Discipline 280100 - Information Systems

This discipline covers information science and information systems. It includes:

- computer and information systems organisation, design and management;
- interfaces and presentation (incl. computer-human interaction) and the application of psychology to computer-human interface; and
- systems theory and conceptual modelling

This discipline has thirteen subjects:

280101 - Information Systems Organisation

280102 - Information Systems Management

280103 - Information Storage, Retrieval and Management

280104 - Computer-Human Interaction

280105 - Interfaces and Presentation (excl. Computer-Human Interaction)

280106 - Interorganisational Information Systems

280107 - Global Information Systems
280108 - Database Management
280109 - Decision Support and Group Support Systems
280110 - Systems Theory
280111 - Conceptual Modelling
280112 - Information Systems Development Methodologies
280199 - Information Systems not elsewhere classified

Exclusions:

The development of computer hardware is included in Discipline 291600 Computer Hardware.

Discipline 280200 - Artificial Intelligence and Signal and Image Processing

This discipline covers artificial intelligence, expert systems and signal and image processing. It includes:

- technologies supplementing or supporting information systems or presentation, such as computer graphics and speech and pattern recognition; and
- virtual and artificial realities and related simulation.

This discipline has thirteen subjects:

280201 - Expert Systems
280202 - Computer Graphics
280203 - Image Processing
280204 - Signal Processing
280205 - Text Processing
280206 - Speech Recognition
280207 - Pattern Recognition
280208 - Computer Vision
280209 - Intelligent Robotics
280210 - Simulation and Modelling
280211 - Virtual Reality and Related Simulation
280212 - Neural Networks, Genetic Algorithms and Fuzzy Logic
280213 - Other Artificial Intelligence

Exclusions:

(a) Computational linguistics is included in Discipline 380200 Linguistics; and

(b) computer perception, memory and attention are included in Discipline 380300 Cognitive Science.

Discipline 280300 - Computer Software

This discipline covers technologies related to computer software, software programming, computer languages and software operating systems. This discipline has six subjects:

280301 - Programming Techniques
280302 - Software Engineering
280303 - Programming Languages
280304 - Operating Systems
280305 - Multimedia Programming
280399 - Computer Software not elsewhere classified

Exclusions:

The development of computer software which has application to fields other than Division 280000 Information, Computing and Communication Sciences is included in other appropriate disciplines, e.g. software development relating to flexible manufacturing systems is included in Discipline 290300 Manufacturing Engineering.

Discipline 280400 - Computation Theory and Mathematics

This discipline covers computation theory and mathematics of computing. This discipline has seven subjects:

280401 - Analysis of Algorithms and Complexity
280402 - Mathematical Logic and Formal Languages
280403 - Logics and Meanings of Programs
280404 - Numerical Analysis
280405 - Discrete Mathematics
280406 - Mathematical Software
280499 - Computation Theory and Mathematics not elsewhere classified

Exclusions:

Mathematics not associated with computer science is included in Discipline 230100 Mathematics.

Discipline 280500 - Data Format

This discipline covers data format technologies in the information, computing and communication sciences. This discipline has seven subjects:

280501 - Data Structures
280502 - Data Storage Representations
280503 - Files
280504 - Data Encryption
280505 - Data Security
280506 - Coding and Information Theory
280599 - Data Format not elsewhere classified

Discipline 289900 - Other Information, Computing and Communication Sciences

This discipline covers all residual information, computing and communication sciences.

It has the one subject:

289999 - Other Information, Computing and Communication Sciences.

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Classification Structure - Division 290000 - Engineering and Technology

Discipline	Subject	Description
290100		Industrial Biotechnology and Food Sciences
	290101	Fermentation, Biotechnology and Industrial Microbiology
	290102	Food Engineering
	290103	Food Processing
	290104	Other Food Sciences
	290105	Other Industrial Biotechnology
290200		Aerospace Engineering
	290201	Aerodynamics
	290202	

		Flight Dynamics
	290203	
		Aerospace Structures
	290204	
		Aircraft Performance
	290205	
		Flight Control Systems
	290206	
		Aerospace Electrical Systems
	290207	
		Satellite, Space Vehicle and Missile Design
	290299	
		Aerospace Engineering not elsewhere classified
290300		
		Manufacturing Engineering
	290301	
		Robotics and Mechatronics
	290302	
		Flexible Manufacturing Systems
	290303	
		CAD/CAM Systems
	290304	
		Control Engineering
	290305	
		Welding Technology
	290306	
		Textile Technology
	290307	
		Printing Technology
	290308	
		Packaging, Storage and Transportation
	290309	
		Safety and Quality
	290399	
		Manufacturing Engineering not elsewhere classified
290400		
		Automotive Engineering
	290401	
		Automotive Engineering
290500		
		Mechanical and Industrial Engineering
	290501	
		Mechanical Engineering
	290502	
		Industrial Engineering

290600		Chemical Engineering
	290601	Chemical Engineering Design
	290602	Process Control and Simulation
	290603	Membrane and Separation Technologies
	290699	Chemical Engineering not elsewhere classified
290700		Resources Engineering
	290701	Mining Engineering
	290702	Mineral Processing
	290703	Petroleum and Reservoir Engineering
	290704	Geomechanics
	290799	Resources Engineering not elsewhere classified
290800		Civil Engineering
	290801	Structural Engineering
	290802	Water and Sanitary Engineering
	290803	Transport Engineering
	290804	Construction Engineering
	290805	Geotechnical Engineering
	290899	Civil Engineering not elsewhere classified
290900		Electrical and Electronic Engineering
	290901	Electrical Engineering
	290902	Integrated Circuits
	290903	Other Electronic Engineering
291000		

291100	291001	Geomatic Engineering
		Geodesy
	291002	Surveying
	291003	Photogrammetry and Remote Sensing
	291004	Spatial Information Systems
	291005	Navigation and Position Fixing
	291006	Cartography
	291099	Geomatic Engineering not elsewhere classified
		Environmental Engineering
	291101	Environmental Engineering Modelling
291200	291102	Bio-remediation
	291103	Environmental Engineering Design
	291104	Environmental Technologies
	291199	Environmental Engineering not elsewhere classified
		Maritime Engineering
	291201	Naval Architecture
	291202	Ship and Platform Hydrodynamics
291300	291203	Ship and Platform Structures
	291204	Marine Engineering
	291205	Ocean Engineering
	291206	Special Vehicles
	291299	Maritime Engineering not elsewhere classified
		Metallurgy

291400	291301	Process Metallurgy
	291302	Physical Metallurgy
		Materials Engineering
	291401	Polymers
	291402	Composite Materials
	291403	Alloy Materials
	291404	Ceramics
	291405	Timber
	291406	Pulp and Paper
	291407	Plastics
291500	291499	Materials Engineering not elsewhere classified
		Biomedical Engineering
	291501	Clinical Engineering
	291502	Rehabilitation Engineering
	291503	Biomaterials
	291504	Biomechanical Engineering
	291599	Biomedical Engineering not elsewhere classified
291600		Computer Hardware
	291601	Arithmetic and Logic Structures
	291602	Memory Structures
	291603	Input, Output and Data Devices
	291604	Logic Design

291700

291605	Processor Architectures
291699	Computer Hardware not elsewhere classified
	Communications Technologies
291701	Antenna Technology
291702	Optical and Photonic Systems
291703	Digital Systems
291704	Computer Communications Networks
291705	Microwave and Millimetrewave Technology
291706	Broadband Network Technology
291707	Modem Technology
291708	Baseband Technology
291709	Satellite Communications
291710	Radio Communications and Broadcasting not elsewhere classified
291799	Communications Technologies not elsewhere classified

291800

	Interdisciplinary Engineering
291801	Fluidization and Fluid Mechanics
291802	Heat and Mass Transfer Operations
291803	Turbulent Flows
291804	Nanotechnology
291899	Interdisciplinary Engineering not elsewhere classified

299900

	Other Engineering and Technology
299901	Agricultural Engineering
299902	

	Combustion and Fuel Engineering
299903	
	Biosensor Technologies
299904	
	Engineering/Technology Instrumentation
299999	
	Engineering and Technology not elsewhere classified

Definitions

Division 290000 - Engineering and Technology, covers engineering and technology, including industrial biotechnology and food sciences, aerospace engineering, manufacturing engineering, mechanical and industrial engineering, metallurgy, materials engineering, computer hardware, communications technologies and any other engineering and technology not elsewhere classified. This division has nineteen disciplines:

290100 - Industrial Biotechnology and Food Sciences
 290200 - Aerospace Engineering
 290300 - Manufacturing Engineering
 290400 - Automotive Engineering
 290500 - Mechanical and Industrial Engineering
 290600 - Chemical Engineering
 290700 - Resources Engineering
 290800 - Civil Engineering
 290900 - Electrical and Electronic Engineering
 291000 - Geomatic Engineering
 291100 - Environmental Engineering
 291200 - Maritime Engineering
 291300 - Metallurgy
 291400 - Materials Engineering
 291500 - Biomedical Engineering
 291600 - Computer Hardware
 291700 - Communications Technologies
 291800 - Engineering Interdisciplinary Studies
 299900 - Other Engineering and Technology

Discipline 290100 - Industrial Biotechnology and Food Sciences

This discipline covers industrial biotechnology and food sciences. It includes fermentation, biotechnology and industrial microbiology, either for production of food or other products. This discipline has five subjects:

290101 - Fermentation, Biotechnology and Industrial Microbiology
 290102 - Food Engineering
 290103 - Food Processing
 290104 - Other Food Sciences
 290105 - Other Industrial Biotechnology

Exclusions:

(a) The non-applied aspects of biotechnology are included in Discipline 270800 Biotechnology; and

(b) packaging, storage and transportation associated with industrial biotechnology and food sciences is included in Discipline 290300 Manufacturing Engineering.

Discipline 290200 - Aerospace Engineering

This discipline covers aerospace technologies and engineering including avionics and aeronautical or astronomical engineering. This discipline has eight subjects:

290201 - Aerodynamics

290202 - Flight Dynamics

290203 - Aerospace Structures

290204 - Aircraft Performance

290205 - Flight Control Systems

290206 - Aerospace Electrical Systems

290207 - Satellite, Space Vehicle and Missile Design

290299 - Aerospace Engineering not elsewhere classified

Exclusions:

Remote sensing and satellites with specific application to antenna technology are included in Discipline 291700 Communications Technologies.

Discipline 290300 - Manufacturing Engineering

This discipline covers manufacturing engineering. It includes:

- robots, robotic systems and mechatronics;
- flexible manufacturing systems;
- computer-aided design and computer-aided manufacture otherwise known as CAD/CAM;
- control engineering;
- welding technology (incl. welding processes);
- textile manufacturing process and technologies;
- packaging, storage and transportation; and
- safety and quality in manufacturing.

This discipline has ten subjects:

290301 - Robotics and Mechatronics
290302 - Flexible Manufacturing Systems
290303 - CAD/CAM Systems
290304 - Control Engineering
290305 - Welding Technology
290306 - Textile Technology
290307 - Printing Technology
290308 - Packaging, Storage and Transportation
290309 - Safety and Quality
290399 - Manufacturing Engineering not elsewhere classified

Exclusions:

- (a) Information systems are included in Discipline 280100 Information Systems;
- (b) intelligent robotics is included in Discipline 280200 Artificial Intelligence and Signal and Image Processing;
- (c) computer software is included in Discipline 280300 Computer Software;
- (d) automotive engineering is included in Discipline 290400 Automotive Engineering;
- (e) membrane and separation technologies are included in Discipline 290600 Chemical Engineering;
- (f) computer hardware is included in Discipline 291600 Computer Hardware; and
- (g) biosensors associated with membrane or separation technologies or any other use is included in Discipline 299900 Other Engineering and Technology.

Discipline 290400 - Automotive Engineering

This discipline covers automotive engineering. This discipline has one Subject:

290401 - Automotive Engineering

Discipline 290500 - Mechanical and Industrial Engineering

This discipline covers general mechanical and industrial engineering. This discipline has two subjects:

290501 - Mechanical Engineering
290502 - Industrial Engineering

Exclusions:

(a) Manufacturing engineering is included in Discipline 290300 Manufacturing Engineering; and

(b) automotive engineering is included in Discipline 290400 Automotive Engineering.

Discipline 290600 - Chemical Engineering

This discipline covers chemical engineering and includes design, membrane and separation technologies, process control and simulation other than those associated with control engineering. This discipline has four subjects:

290601 - Chemical Engineering Design

290602 - Process Control and Simulation

290603 - Membrane and Separation Technologies

290699 - Chemical Engineering not elsewhere classified

Exclusions:

(a) Manufacturing and process technologies (incl. process control associated with control engineering) is included in Discipline 290300 Manufacturing Engineering; and

(b) fluidization and fluid mechanics and heat and mass transfer operations are included in Discipline 291800 Engineering Interdisciplinary Studies.

Discipline 290700 - Resources Engineering

This discipline covers mining engineering and mineral processing and includes petroleum and reservoir engineering and geomechanics. This discipline has five subjects:

290701 - Mining Engineering

290702 - Mineral Processing

290703 - Petroleum and Reservoir Engineering

290704 - Geomechanics

290799 - Resources Engineering not elsewhere classified

Exclusions:

Geology, geophysics, geochemistry, hydrology and other earth sciences are included in the appropriate disciplines in Division 260000 Earth Sciences.

Discipline 290800 - Civil Engineering

This discipline includes civil engineering (incl. structural engineering). It includes:

- transport engineering (other than aerospace and maritime engineering);
- water and sanitary engineering; and
- construction engineering.

This discipline has six subjects:

290801 - Structural Engineering
290802 - Water and Sanitary Engineering
290803 - Transport Engineering
290804 - Construction Engineering
290805 - Geotechnical Engineering
290899 - Civil Engineering not elsewhere classified

Exclusions:

- (a) Aerospace engineering is included in Discipline 290200 Aerospace Engineering;
- (b) surveying is included in Discipline 291000 Geomatic Engineering;
- (c) maritime engineering is included in Discipline 291200 Maritime Engineering;
- (d) agricultural engineering is included in Discipline 299900 Other Engineering and Technology; and
- (e) applied hydrology is included in Discipline 300100 Soil and Water Sciences.

Discipline 290900 - Electrical and Electronic Engineering

This discipline covers general electrical and electronic engineering. This discipline has three subjects:

290901 - Electrical Engineering
290902 - Integrated Circuits
290903 - Other Electronic Engineering

Exclusions:

- (a) Electrical or electronic engineering associated with computer hardware is included in Discipline 291600 Computer Hardware; and
- (b) electrical or electronic engineering associated with communications technologies is included in Discipline 291700 Communications Technologies.

Discipline 291000 - Geomatic Engineering

This discipline covers geomatic engineering. This discipline has seven subjects:

291001 - Geodesy
291002 - Surveying
291003 - Photogrammetry and Remote Sensing
291004 - Spatial Information Systems
291005 - Navigation and Position Fixing

291006 - Cartography

291099 - Geomatic Engineering not elsewhere classified

Discipline 291100 - Environmental Engineering

This discipline covers environmental engineering. This discipline has five subjects:

291101 - Environmental Engineering Modelling

291102 - Bio-remediation

291103 - Environmental Engineering Design

291104 - Environmental Technologies

291199 - Environmental Engineering not elsewhere classified

Discipline 291200 - Maritime Engineering

This discipline covers maritime engineering. This discipline has seven subjects:

291201 - Naval Architecture

291202 - Ship and Platform Hydrodynamics

291203 - Ship and Platform Structures

291204 - Marine Engineering

291205 - Ocean Engineering

291206 - Special Vehicles

291299 - Maritime Engineering not elsewhere classified

Discipline 291300 - Metallurgy

This discipline covers metallurgy. This discipline has two subjects:

291301 - Process Metallurgy

291302 - Physical Metallurgy

Discipline 291400 - Materials Engineering

This discipline covers the material sciences and technologies. It includes:

- ceramics science and ceramics engineering;
- applied science and technology contributing to polymers and textile compounds; and
- other material sciences and technologies concerned with composite materials, alloy materials and other materials.

This discipline has eight subjects:

291401 - Polymers
291402 - Composite Materials
291403 - Alloy Materials
291404 - Ceramics
291405 - Timber
291406 - Pulp and Paper
291407 - Plastics
291499 - Materials Engineering not elsewhere classified

Exclusions:

(a) Polymer chemistry without specific application is included in Discipline 250100 Physical Chemistry (incl. Structural); and

(b) building materials is included in Discipline 310200 Building.

Discipline 291500 - Biomedical Engineering

This discipline covers biomedical engineering. This discipline has five subjects:

291501 - Clinical Engineering
291502 - Rehabilitation Engineering
291503 - Biomaterials
291504 - Biomechanical Engineering
291599 - Biomedical Engineering not elsewhere classified

Discipline 291600 - Computer Hardware

This discipline covers the development of computer hardware including the development associated with physical components for personal computer, mainframe, accessory computer equipment or other purposes. It includes the development of circuit boards and hardware assemblies of computing devices; and also the development of multiplexers, printers, scanners or any accessory related to computers. This discipline has six subjects:

291601 - Arithmetic and Logic Structures
291602 - Memory Structures
291603 - Input, Output and Data Devices
291604 - Logic Design
291605 - Processor Architectures
291699 - Computer Hardware not elsewhere classified

Exclusions:

(a) Integrated circuits are included in Discipline 290900 Electrical and Electronic Engineering; and

(b) modem technology is included in Discipline 291700 Communications Technologies.

Discipline 291700 - Communications Technologies

This discipline covers technologies supporting communications and communication systems. It includes:

- communication networks and analysis;
- communication and broadcasting systems;
- digital systems, optical and photonic systems or any other communication system;
- antenna technology (incl. that used in remote sensing and satellite technology); and
- microwave and millimetrewave technology

This discipline has eleven subjects:

291701 - Antenna Technology

291702 - Optical and Photonic Systems

291703 - Digital Systems

291704 - Computer Communications Networks

291705 - Microwave and Millimetrewave Technology

291706 - Broadband Network Technology

291707 - Modem Technology

291708 - Baseband Technology

291709 - Satellite Communications

291710 - Radio Communications and Broadcasting not elsewhere classified

291799 - Communications Technologies not elsewhere classified

Exclusions:

Data transfer systems used primarily for computing purposes are included in Discipline 291600 Computer Hardware.

Discipline 291800 - Interdisciplinary Engineering

This discipline covers interdisciplinary engineering. This discipline has five subjects:

291801 - Fluidization and Fluid Mechanics

291802 - Heat and Mass Transfer Operations

291803 - Turbulent Flows

291804 - Nanotechnology

291899 - Interdisciplinary Engineering not elsewhere classified

Discipline 299900 - Other Engineering and Technology

This discipline covers other engineering and technology not elsewhere classified. This discipline has five subjects:

299901 - Agricultural Engineering

299902 - Combustion and Fuel Engineering

299903 - Biosensor Technologies

299904 - Engineering/Technology Instrumentation

299999 - Engineering and Technology not elsewhere classified

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Classification Structure - Division 300000 - Agricultural, Veterinary and Environmental Sciences

Discipline	Subject	Description
300100		Soil and Water Sciences
	300101	Soil Physics
	300102	Soil Biology
	300103	Soil Chemistry
	300104	Land Capability and Soil Degradation
	300105	Applied Hydrology (Drainage, Flooding, Irrigation, Quality, etc.)
	300199	Soil and Water Sciences not elsewhere classified
300200		

	Crop and Pasture Production	
	300201	Plant Biochemistry and Physiology
	300202	Plant Nutrition
	300203	Plant Improvement (Selection, Breeding and Genetic Engineering)
	300204	Plant Protection (Pests, Diseases and Weeds)
	300205	Agronomy
	300206	Post Harvest Technologies (Transportation and Storage)
	300299	Crop and Pasture Production not elsewhere classified
300300	Horticulture	
	300301	Plant Improvement (Selection, Breeding and Genetic Engineering)
	300302	Plant Growth and Development
	300303	Plant Protection (Pests, Diseases and Weeds)
	300304	Post Harvest Technologies
	300305	Oenology and Viticulture
	300399	Horticulture not elsewhere classified
300400	Animal Production	
	300401	Animal Breeding
	300402	Animal Reproduction
	300403	Animal Nutrition
	300404	Animal Husbandry
	300405	Animal Protection (Pests and Pathogens)
	300406	Animal Growth and Development
	300499	Animal Production not elsewhere classified

300500**Veterinary Sciences**

300501	Veterinary Medicine
300502	Anaesthesiology and Intensive Care
300503	Epidemiology
300504	Immunology
300505	Anatomy and Physiology
300506	Pathology
300507	Microbiology (excl. Virology)
300508	Parasitology
300509	Radiology and Imaging
300510	Virology
300511	Surgery
300512	Pharmacology
300599	Veterinary Sciences not elsewhere classified

300600**Forestry Sciences**

300601	Nutrition and Physiology
300602	Tree Improvement (Selection, Breeding and Genetic Engineering)
300603	Pests, Health and Diseases
300604	Management and Environment
300605	Fire Management
300606	Agroforestry
300699	Forestry Sciences not elsewhere classified

300700

		Fisheries Sciences
	300701	Physiology and Genetics
	300702	Pests and Diseases
	300703	Aquaculture
	300704	Ecosystem Studies and Stock Assessment
	300705	Evaluation of Management Strategies
	300799	Fisheries Sciences not elsewhere classified
300800		
		Environmental Sciences
	300801	Environmental Management and Rehabilitation
	300802	Wildlife and Habitat Management
	300803	Natural Resource Management
	300804	Environmental Impact Assessment
	300805	Conservation
	300899	Environmental Sciences not elsewhere classified
300900		
		Land, Parks and Agriculture Management
	300901	Farm Management, Rural Management and Agribusiness
	300902	Land and Parks Management
	300903	Sustainable Development
	300999	Land, Parks and Agriculture Management not elsewhere classified
309900		
		Other Agricultural, Veterinary and Environmental Sciences
	309901	Fertilisers and Agrochemicals (Application etc.)
	309902	Education and Extension
	309999	Agricultural, Veterinary and Environmental Sciences not elsewhere classified

Definitions

Division 300000 - Agricultural, Veterinary and Environmental Sciences, covers sciences and technologies supporting agriculture and the environment. It includes soil and water science, crop and pasture production, agronomy, horticulture, animal production, forestry sciences, environmental sciences and other agricultural sciences. It also includes the veterinary sciences. This division has ten disciplines:

300100 - Soil and Water Sciences
300200 - Crop and Pasture Production
300300 - Horticulture
300400 - Animal Production
300500 - Veterinary Sciences
300600 - Forestry Sciences
300700 - Fisheries Sciences
300800 - Environmental Sciences
300900 - Land, Parks and Agriculture Management
309900 - Other Agricultural, Veterinary and Environmental Sciences

Exclusions:

- (a) Biological or life sciences not associated with agricultural and veterinary sciences or human health and medicine are included in Division 270000 Biological Sciences;
- (b) agricultural engineering is included in Discipline 299900 Other Engineering and Technology;
- (c) biological or life sciences associated with human health and medicine are included in Division 320000 Medical and Health Sciences; and
- (d) agricultural economics is included in Discipline 340200 Applied Economics.

Discipline 300100 - Soil and Water Sciences

This discipline covers soil science and the applied aspects of water science (i.e. applied hydrology) for the purposes of primary production. This discipline has six subjects:

300101 - Soil Physics
300102 - Soil Biology
300103 - Soil Chemistry
300104 - Land Capability and Soil Degradation
300105 - Applied Hydrology (Drainage, Flooding, Irrigation, Quality, etc.)
300199 - Soil and Water Sciences not elsewhere classified

Exclusions:

Basic water science or hydrology is included in Discipline 260500 Hydrology.

Discipline 300200 - Crop and Pasture Production

This discipline covers the sciences and technologies directed towards the production of crops, pastures and grains. It includes agronomy; plant genetics and plant protection procedures in the field; the post harvest treatment, transportation and storage of crops and grains; and weed science. This discipline has seven subjects:

300201 - Plant Biochemistry and Physiology
300202 - Plant Nutrition
300203 - Plant Improvement (Selection, Breeding and Genetic Engineering)
300204 - Plant Protection (Pests, Diseases and Weeds)
300205 - Agronomy
300206 - Post Harvest Technologies (Transportation and Storage)
300299 - Crop and Pasture Production not elsewhere classified

Exclusions:

- (a) Plant pathology associated with basic botanical studies is included in Discipline 270400 Botany; and
- (b) post harvest treatment of horticultural crops and produce is included in Discipline 300300 Horticulture.

Discipline 300300 - Horticulture

This discipline covers horticulture and horticultural science. It includes:

- the propagation and culture of garden or horticultural crops (incl. production methods such as tissue culture, glasshouse techniques, hydroponics);
- fruit crops (other than table grapes);
- viticulture (incl. growing table and wine grapes) and wine technologies which is included in Subject 300305 Oenology and Viticulture;
- flower production, ornamental crops and nursery stock;
- propagating and growing vegetable crops (incl. mushrooms and fungi consumed as food);
- post-harvest treatment of horticultural crops; and
- lawns for aesthetic or sporting purposes.

This discipline has six subjects:

300301 - Plant Improvement (Selection, Breeding and Genetic Engineering)
300302 - Plant Growth and Development
300303 - Plant Protection (Pests, Diseases and Weeds)
300304 - Post Harvest Technologies
300305 - Oenology and Viticulture
300399 - Horticulture not elsewhere classified

Discipline 300400 - Animal Production

This discipline covers the sciences and technologies supporting the primary production of livestock and the primary production of birds and poultry (incl. egg production). It includes bees and apiary culture. This discipline has seven subjects:

300401 - Animal Breeding
300402 - Animal Reproduction
300403 - Animal Nutrition
300404 - Animal Husbandry
300405 - Animal Protection (Pests and Pathogens)
300406 - Animal Growth and Development
300499 - Animal Production not elsewhere classified

Exclusions:

(a) Veterinary science is included in Discipline 300500 Veterinary Sciences; and

(b) the culture and production of marine and freshwater animals (incl. fish, crustaceans and shellfish) is included in Discipline 300700 Fisheries Sciences.

Discipline 300500 - Veterinary Sciences

This discipline covers veterinary science practised on livestock for primary production, domestic or other uses (e.g. sport). This discipline has thirteen subjects:

300501 - Veterinary Medicine
300502 - Anaesthesiology and Intensive Care
300503 - Epidemiology
300504 - Immunology
300505 - Anatomy and Physiology
300506 - Pathology
300507 - Microbiology (excl. Virology)
300508 - Parasitology
300509 - Radiology and Imaging
300510 - Virology
300511 - Surgery
300512 - Pharmacology
300599 - Veterinary Sciences not elsewhere classified

Exclusions:

Field procedures to protect animals against pest and pathogens is included in Discipline 300400 Animal Production.

Discipline 300600 - Forestry Sciences

This discipline covers forestry sciences and silviculture. It includes forest fire prevention and control. This discipline has seven subjects:

- 300601 - Nutrition and Physiology
- 300602 - Tree Improvement (Selection, Breeding and Genetic Engineering)
- 300603 - Pests, Health and Diseases
- 300604 - Management and Environment
- 300605 - Fire Management
- 300606 - Agroforestry
- 300699 - Forestry Sciences not elsewhere classified

Discipline 300700 - Fisheries Sciences

This discipline covers the sciences and technologies supporting fishing or production of freshwater or marine fisheries (incl. shellfish and crustaceans). This discipline has six subjects:

- 300701 - Physiology and Genetics
- 300702 - Pests and Diseases
- 300703 - Aquaculture
- 300704 - Ecosystem Studies and Stock Assessment
- 300705 - Evaluation of Management Strategies
- 300799 - Fisheries Sciences not elsewhere classified

Discipline 300800 - Environmental Sciences

This discipline covers environmental sciences. This discipline has six subjects:

- 300801 - Environmental Management and Rehabilitation
- 300802 - Wildlife and Habitat Management
- 300803 - Natural Resource Management
- 300804 - Environmental Impact Assessment
- 300805 - Conservation
- 300899 - Environmental Sciences not elsewhere classified

Discipline 300900 - Land, Parks and Agriculture Management

This discipline covers the management of land, parks and areas under agriculture. This discipline has four subjects:

- 300901 - Farm Management, Rural Management and Agribusiness
- 300902 - Land and Parks Management
- 300903 - Sustainable Development
- 300999 - Land, Parks and Agriculture Management not elsewhere classified

Discipline 309900 - Other Agricultural, Veterinary and Environmental Sciences

This discipline covers the agricultural, veterinary and environmental sciences not elsewhere classified. It includes fertilisers and agrochemicals (incl. their application) and agricultural education and extension services. This discipline has three subjects:

309901 - Fertilisers and Agrochemicals (Application etc.)

309902 - Education and Extension

309999 - Agricultural, Veterinary and Environmental Sciences not elsewhere classified

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Classification Structure - Division 310000 - Architecture, Urban Environment and Building

Discipline	Subject	Description
310100		Architecture and Urban Environment
	310101	Architecture
	310102	Heritage and Conservation
	310103	Urban and Regional Planning
	310104	Landscape Planning
	310105	History of the Built Environment
	310106	Interior and Environmental Design
	310199	Architecture and Urban Environment not elsewhere classified

310200	
	Building
310201	Building Science and Techniques
310202	Building Construction Management
310203	Building Construction Economics (incl. Quantity Surveying)
310299	Building not elsewhere classified
319900	
	Other Architecture, Urban Environment and Building
319999	Other Architecture, Urban Environment and Building

Definitions

Division 310000 - Architecture, Urban Environment and Building, covers architecture, urban environment and building. This division has three disciplines:

- 310100 - Architecture and Urban Environment
- 310200 - Building
- 319900 - Other Architecture, Urban Environment and Building

Discipline 310100 - Architecture and Urban Environment

This discipline covers architecture and urban environment. This discipline has seven subjects:

- 310101 - Architecture
- 310102 - Heritage and Conservation
- 310103 - Urban and Regional Planning
- 310104 - Landscape Planning
- 310105 - History of the Built Environment
- 310106 - Interior and Environmental Design
- 310199 - Architecture and Urban Environment not elsewhere classified

Discipline 310200 - Building

This discipline covers building, including building science and building materials. This discipline has four subjects:

- 310201 - Building Science and Techniques
- 310202 - Building Construction Management
- 310203 - Building Construction Economics (incl. Quantity Surveying)
- 310299 - Building not elsewhere classified

Discipline 319900 - Other Architecture, Urban Environment and Building

This discipline covers architecture, urban environment and building not elsewhere classified. It has the one Subject

319999 - Other Architecture, Urban Environment and Building.

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Classification Structure - Division 320000 - Medical And Health Sciences

Discipline	Subject	Description
320100		Medicine - General
320200		Immunology
	320201	Allergy
	320202	Cellular Immunology
	320203	Humoral Immunology and Immunochemistry
	320204	Immunogenetics
	320205	Transplantation Immunology
	320206	Tumor Immunology
	320207	

		Autoimmunity
	320299	Immunology not elsewhere classified
320300		Medical Biochemistry and Clinical Chemistry
	320301	Clinical Chemistry
	320302	Medical Biochemistry: Carbohydrates
	320303	Medical Biochemistry: Lipids
	320304	Medical Biochemistry: Nucleic Acids
	320305	Medical Biochemistry: Proteins and Peptides
	320306	Medical Biochemistry: Phospholipids
	320307	Medical Biochemistry: Other
320400		Medical Microbiology
	320401	Medical Bacteriology
	320402	Medical Virology
	320403	Medical Infection Agents (incl. Prions)
	320404	Medical Mycology
	320405	Medical Parasitology
	320499	Medical Microbiology not elsewhere classified
320500		Pharmacology and Pharmaceutical Sciences
	320501	Pharmaceutical Sciences and Pharmacy
	320502	Basic Pharmacology
	320503	Clinical Pharmacology and Therapeutics
	320504	Toxicology (incl. Clinical Toxicology)
	320599	Pharmacology not elsewhere classified

320600**Medical Physiology**

320601

Human Biophysics

320602

Cell Physiology

320603

Systems Physiology

320699

Medical Physiology not elsewhere classified

320700**Neurosciences**

320701

Autonomic Nervous System

320702

Central Nervous System

320703

Peripheral Nervous System

320704

Cellular Nervous System

320705

Sensory Systems

320799

Neurosciences not elsewhere classified

320800**Dentistry**

320801

Oral Surgery

320802

Dentistry Support

320803

Dental Technology

320804

Dental Therapy

320899

Dentistry not elsewhere classified

320900**Optometry**

320901

Optical Technology

320999

Optometry not elsewhere classified

321000**Clinical Sciences**

321001

	Anaesthesiology
321002	Dermatology
321003	Cardiology (incl. Cardiovascular Diseases)
321004	Endocrinology
321005	Fetal Development and Medicine
321006	Gastroenterology and Hepatology
321007	Geriatrics and Gerontology
321008	Haematology
321009	Intensive Care
321010	Infectious Diseases
321011	Medical Genetics
321012	Nephrology and Urology
321013	Neurology and Neuromuscular Diseases
321014	Obstetrics and Gynaecology
321015	Oncology and Carcinogenesis
321016	Ophthalmology and Vision Science
321017	Orthopaedics
321018	Otorhinolaryngology
321019	Paediatrics
321020	Pathology
321021	Psychiatry
321022	Radiology and Organ Imaging
321023	Radiotherapy and Nuclear Medicine

	321024	Rehabilitation and Therapy: Occupational and Physical
	321025	Rehabilitation and Therapy: Hearing and Speech
	321026	Reproduction
	321027	Respiratory Diseases
	321028	Rheumatology and Arthritis
	321029	Surgery
	321030	Venereology
	321099	Clinical Sciences not elsewhere classified
321100		Nursing
	321101	Midwifery
	321102	Clinical Nursing: Primary (Preventative)
	321103	Clinical Nursing: Secondary (Acute Care)
	321104	Clinical Nursing: Tertiary (Rehabilitative)
	321105	Mental Health Nursing
	321106	Aged care Nursing
	321199	Nursing not elsewhere classified
321200		Public Health and Health Services
	321201	Environmental and Occupational Health and Safety
	321202	Epidemiology
	321203	Health Information Systems (incl. Surveillance)
	321204	Mental Health
	321205	Nutrition and Dietetics

321206	Preventive Medicine
321207	Indigenous Health
321208	Primary Health Care
321209	Family Care
321210	Community Child Health
321211	Residential Client Care
321212	Care for Disabled
321213	Human Bioethics
321214	Health and Community Services
321215	Health Care Administration
321216	Health Promotion
321217	Health Counselling
321299	Public Health and Health Services not elsewhere classified
321300	Complementary/Alternative Medicine
321301	Oriental Medicine and Treatments
321302	Chiropractic
321303	Naturopathy
321399	Complementary/Alternative Medicine not elsewhere classified
321400	Human Movement and Sports Science
321401	Exercise Physiology
321402	Biomechanics
321403	Motor Control
321404	

	Sport and Exercise Psychology
321405	Sports Medicine
321499	Human Movement and Sports Science not elsewhere classified
329900	
	Other Medical and Health Sciences
329901	Podiatry
329902	Medical Biotechnology
329903	Therapies and Therapeutic Technology
329999	Medical and Health Sciences not elsewhere classified

Definitions

Division 320000 covers Medical and Health Sciences. This division has fifteen disciplines:

320100 - Medicine - General
 320200 - Immunology
 320300 - Medical Biochemistry and Clinical Chemistry
 320400 - Medical Microbiology
 320500 - Pharmacology and Pharmaceutical Sciences
 320600 - Medical Physiology
 320700 - Neurosciences
 320800 - Dentistry
 320900 - Optometry
 321000 - Clinical Sciences
 321100 - Nursing
 321200 - Public Health and Health Services
 321300 - Complementary/Alternative Medicine
 321400 - Human Movement and Sports Science
 329900 - Other Medical and Health Sciences

Exclusions:

(a) Biological sciences without application to human health and disease are included in the appropriate disciplines in Division 270000 Biological Sciences;

(b) biomedical engineering is included in Discipline 291500 Biomedical Engineering;

(c) biological and life sciences associated with agricultural and veterinary studies are included in the appropriate disciplines in Division 300000 Agricultural, Veterinary and Environmental Sciences; and

(d) ergonomics is included in Discipline 410400 Design Studies.

Discipline 320100 - Medicine - General

This discipline is for use in classifying general courses in medicine which cannot be allocated to a more specific discipline within Division 320000 Medical and Health Sciences.

Discipline 320200 - Immunology

This discipline covers the processes and reactions of the human immune system. This discipline has eight subjects:

320201 - Allergy

320202 - Cellular Immunology

320203 - Humoral Immunology and Immunochemistry

320204 - Immunogenetics

320205 - Transplantation Immunology

320206 - Tumor Immunology

320207 - Autoimmunity

320299 - Immunology not elsewhere classified

Exclusions:

Specific human disorders or diseases are included in Discipline 321000 Clinical Sciences.

Discipline 320300 - Medical Biochemistry and Clinical Chemistry

This discipline covers human biochemistry or the chemistry of human living organisms and the human life process. This discipline has seven subjects:

320301 - Clinical Chemistry

320302 - Medical Biochemistry: Carbohydrates

320303 - Medical Biochemistry: Lipids

320304 - Medical Biochemistry: Nucleic Acids

320305 - Medical Biochemistry: Proteins and Peptides

320306 - Medical Biochemistry: Phospholipids

320307 - Medical Biochemistry: Other

Exclusions:

(a) Biochemistry of species other than human or plant and biochemistry not related to medicine or health are included in Discipline 270100 Biochemistry and Cell Biology; and

(b) plant biochemistry is included in Discipline 300200 Crop and Pasture Production.

Discipline 320400 - Medical Microbiology

This discipline covers microbiology associated with human health and disease. This discipline has six subjects:

320401 - Medical Bacteriology
320402 - Medical Virology
320403 - Medical Infection Agents (incl. Prions)
320404 - Medical Mycology
320405 - Medical Parasitology
320499 - Medical Microbiology not elsewhere classified

Exclusions: Microbiology

(a) for reasons not related to medicine is included in Discipline 270300 Microbiology; and

(b) in association with veterinary practice is included in Discipline 300500 Veterinary Sciences.

Discipline 320500 - Pharmacology and Pharmaceutical Sciences

This discipline covers the preparation, properties, uses and actions of drugs for medical use. This discipline has five subjects:

320501 - Pharmaceutical Sciences and Pharmacy
320502 - Basic Pharmacology
320503 - Clinical Pharmacology and Therapeutics
320504 - Toxicology (incl. Clinical Toxicology)
320599 - Pharmacology not elsewhere classified

Exclusions:

Pharmacology for veterinary use is included in Discipline 300500 Veterinary Sciences.

Discipline 320600 - Medical Physiology

This discipline covers the processes and function of the human body or the physical and chemical processes involved in the functioning of the human body and its component parts. This discipline has four subjects:

320601 - Human Biophysics
320602 - Cell Physiology
320603 - Systems Physiology
320699 - Medical Physiology not elsewhere classified

Exclusions:

(a) Medical physics is included in Discipline 249900 Other Physical Sciences;

(b) basic animal physiology and comparative physiology are included in Discipline 270600 Physiology;

(c) physiology related to specific aspects of plant or animal production or veterinary practice is included in the appropriate disciplines in Division 300000 Agricultural, Veterinary and Environmental Sciences; and

(d) exercise physiology is included in Discipline 321400 Human Movement and Sports Science.

Discipline 320700 - Neurosciences

This discipline covers the processes and reactions of the human nervous system. This discipline has six subjects:

320701 - Autonomic Nervous System

320702 - Central Nervous System

320703 - Peripheral Nervous System

320704 - Cellular Nervous System

320705 - Sensory Systems

320799 - Neurosciences not elsewhere classified

Exclusions:

(a) Neurology and neuromuscular disease, psychiatry (incl. psychotherapy) and other specific neurological disorders are included in the appropriate subjects in Discipline 321000 Clinical Sciences; and

(b) neurocognitive patterns and neural networks are included in Discipline 380300 Cognitive Sciences.

Discipline 320800 - Dentistry

This discipline covers dentistry. This discipline has five subjects:

320801 - Oral Surgery

320802 - Dentistry Support

320803 - Dental Technology

320804 - Dental Therapy

320899 - Dentistry not elsewhere classified

Discipline 320900 - Optometry

This discipline covers optometry. This discipline has two subjects:

320901 - Optical Technology

320999 - Optometry not elsewhere classified

Discipline 321000 - Clinical Sciences

This discipline covers specific clinical aspects of medicine, including causes, diagnosis, treatment and management of specific diseases and conditions. This discipline has

thirty one subjects:

321001 - Anaesthesiology
321002 - Dermatology
321003 - Cardiology (incl. Cardiovascular Diseases)
321004 - Endocrinology
321005 - Fetal Development and Medicine
321006 - Gastroenterology and Hepatology
321007 - Geriatrics and Gerontology
321008 - Haematology
321009 - Intensive Care
321010 - Infectious Diseases
321011 - Medical Genetics
321012 - Nephrology and Urology
321013 - Neurology and Neuromuscular Diseases
321014 - Obstetrics and Gynaecology
321015 - Oncology and Carcinogenesis
321016 - Ophthalmology and Vision Science
321017 - Orthopaedics
321018 - Otorhinolaryngology
321019 - Paediatrics
321020 - Pathology
321021 - Psychiatry
321022 - Radiology and Organ Imaging
321023 - Radiotherapy and Nuclear Medicine
321024 - Rehabilitation and Therapy: Occupational and Physical
321025 - Rehabilitation and Therapy: Hearing and Speech
321026 - Reproduction
321027 - Respiratory Diseases
321028 - Rheumatology and Arthritis
321029 - Surgery
321030 - Venereology
321099 - Clinical Sciences not elsewhere classified

Exclusions:

(a) Immunology, medical biochemistry, medical microbiology, pharmacology, physiology, neurosciences, dentistry and optometry are included in other disciplines in Division 320000 Medical and Health Sciences;

(b) sport and exercise psychology is included in Discipline 321400 Human Movement and Sports Science; and

(c) psychology (other than sport and exercise psychology) is included in Discipline 380100 Psychology.

Discipline 321100 - Nursing

This discipline covers nursing. This discipline has seven subjects:

- 321101 - Midwifery
- 321102 - Clinical Nursing: Primary (Preventative)
- 321103 - Clinical Nursing: Secondary (Acute Care)
- 321104 - Clinical Nursing: Tertiary (Rehabilitative)
- 321105 - Mental Health Nursing
- 321106 - Aged Care Nursing
- 321199 - Nursing not elsewhere classified

Discipline 321200 - Public Health and Health Services

This discipline covers the non-clinical aspects (e.g. statistical, administration, programme evaluation, impact of life style) of health and health care and the provision, administration and evaluation of health care services. This discipline has eighteen subjects:

- 321201 - Environmental and Occupational Health and Safety
- 321202 - Epidemiology
- 321203 - Health Information Systems (incl. Surveillance)
- 321204 - Mental Health
- 321205 - Nutrition and Dietetics
- 321206 - Preventive Medicine
- 321207 - Indigenous Health
- 321208 - Primary Health Care
- 321209 - Family Care
- 321210 - Community Child Health
- 321211 - Residential Client Care
- 321212 - Care for Disabled
- 321213 - Human Bioethics
- 321214 - Health and Community Services
- 321215 - Health Care Administration
- 321216 - Health Promotion
- 321217 - Health Counselling
- 321299 - Public Health and Health Services not elsewhere classified

Exclusions:

- (a) Nursing is included in Discipline 321100 Nursing; and
- (b) health economics is included in Discipline 340200 Applied Economics.

Discipline 321300 - Complementary/Alternative Medicine

This discipline covers complementary/alternative medicine. This discipline has four subjects:

321301 - Oriental Medicine and Treatments
321302 - Chiropractic
321303 - Naturopathy
321399 - Complementary/Alternative Medicine not elsewhere classified

Discipline 321400 - Human Movement and Sports Science

This discipline covers human movement and sports science. This discipline has six subjects:

321401 - Exercise Physiology
321402 - Biomechanics
321403 - Motor Control
321404 - Sport and Exercise Psychology
321405 - Sports Medicine
321499 - Human Movement and Sports Science not elsewhere classified

Discipline 329900 - Other Medical and Health Sciences

This discipline covers other medical and health sciences not elsewhere classified. This discipline has four subjects:

329901 - Podiatry
329902 - Medical Biotechnology
329903 - Therapies and Therapeutic Technology
329999 - Medical and Health Sciences not elsewhere classified

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Classification Structure - Division 330000 - Education

Discipline

Subject

Description

330100

Education Studies

330101

Educational Psychology

330102

History and Philosophy of Education

330103

Sociology of Education

330104

Educational Policy, Administration and Management

330105

Educational Counselling

330106

Comparative Education

330107

Educational Technology and Media

330108

		Special Education
	330109	
		Assessment and Evaluation
	330199	
		Education Studies not elsewhere classified
330200		
		Curriculum Studies
	330201	
		Curriculum Studies: English Education
	330202	
		Curriculum Studies: Mathematics Education
	330203	
		Curriculum Studies: Science Education
	330204	
		Curriculum Studies: Economics, Commerce, Management and Services Education
	330205	
		Curriculum Studies: Other Social Sciences, Humanities and Arts Education
	330206	
		Curriculum Theory and Development
	330299	
		Curriculum Studies not elsewhere classified
330300		
		Professional Development of Teachers
	330301	
		Teacher Education: Early Childhood
	330302	
		Teacher Education: Primary
	330303	
		Teacher Education: Secondary
	330304	
		Teacher Education: Vocational Education and Training
	330305	
		Teacher Education: Higher Education
	330306	
		Teacher Education: Special Education
	330307	
		Teacher Education: Nursing and Health
	330399	
		Professional Development of Teachers not elsewhere classified
339900		
		Other Education
	339999	
		Other Education

Division 330000 - Education, covers education, including the professional development of teachers. This division has four disciplines:

- 330100 - Education Studies
- 330200 - Curriculum Studies
- 330300 - Professional Development of Teachers
- 339900 - Other Education

Discipline 330100 - Education Studies

This discipline covers education studies. This discipline has ten subjects:

- 330101 - Educational Psychology
- 330102 - History and Philosophy of Education
- 330103 - Sociology of Education
- 330104 - Educational Policy, Administration and Management
- 330105 - Educational Counselling
- 330106 - Comparative Education
- 330107 - Educational Technology and Media
- 330108 - Special Education
- 330109 - Assessment and Evaluation
- 330199 - Education Studies not elsewhere classified

Discipline 330200 - Curriculum Studies

This discipline covers curriculum studies. This discipline has seven subjects:

- 330201 - Curriculum Studies: English Education
- 330202 - Curriculum Studies: Mathematics Education
- 330203 - Curriculum Studies: Science Education
- 330204 - Curriculum Studies: Economics, Commerce, Management and Services Education
- 330205 - Curriculum Studies: Other Social Sciences, Humanities and Arts Education
- 330206 - Curriculum Theory and Development
- 330299 - Curriculum Studies not elsewhere classified

Discipline 330300 - Professional Development of Teachers

This discipline covers the professional development of teachers. This discipline has eight subjects:

- 330301 - Teacher Education: Early Childhood
- 330302 - Teacher Education: Primary
- 330303 - Teacher Education: Secondary
- 330304 - Teacher Education: Vocational Education and Training
- 330305 - Teacher Education: Higher Education
- 330306 - Teacher Education: Special Education

330307 - Teacher Education: Nursing and Health
330399 - Professional Development of Teachers not elsewhere classified

Discipline 339900 - Other Education

This discipline covers other education not elsewhere classified. It has the one subject:

339999 - Other Education

Exclusions:

Legal education is included in Discipline 390200 Professional Development of Law Practitioners.

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Classification Structure - Division 340000 - Economics

Discipline	Subject	Description
340100		Economic Theory
	340101	Microeconomic Theory
	340102	Macroeconomic Theory
	340103	Mathematical Economics
	340199	Economic Theory not elsewhere classified
340200		Applied Economics
	340201	Agricultural Economics
	340202	Environment and Resource Economics
	340203	

	Finance Economics
340204	Health Economics
340205	Industry Economics and Industrial Organisation
340206	International Economics and International Finance
340207	Labour Economics
340208	Macroeconomics (incl. Monetary and Fiscal Theory)
340209	Public Sector Economics
340210	Welfare Economics
340211	Transport Economics
340212	Economic Geography
340213	Economic Development and Growth
340214	Urban and Regional Economics
340299	Applied Economics not elsewhere classified
340300	Economic History and History of Economic Thought
340301	Economic History
340302	History of Economic Thought
340400	Econometrics
340401	Economic Models and Forecasting
340402	Econometric and Statistical Methods
340403	Time-Series Analysis
340404	Cross-Sectional Analysis
340405	Panel Data Analysis
340499	Econometrics not elsewhere classified

349900**Other Economics**

349901

Political Economy

349902

Comparative Economic Systems

349999

Economics not elsewhere classified

Definitions

Division 340000 covers Economics. This division has five disciplines:

340100 - Economic Theory

340200 - Applied Economics

340300 - Economic History and History of Economic Thought

340400 - Econometrics

349900 - Other Economics

Discipline 340100 - Economic Theory

This discipline covers economic theory. This discipline has four subjects:

340101 - Microeconomic Theory

340102 - Macroeconomic Theory

340103 - Mathematical Economics

340199 - Economic Theory not elsewhere classified

Discipline 340200 - Applied Economics

This discipline covers applied economics. This discipline has fifteen subjects:

340201 - Agricultural Economics

340202 - Environment and Resource Economics

340203 - Finance Economics

340204 - Health Economics

340205 - Industry Economics and Industrial Organisation

340206 - International Economics and International Finance

340207 - Labour Economics

340208 - Macroeconomics (incl. Monetary and Fiscal Theory)

340209 - Public Sector Economics

340210 - Welfare Economics

340211 - Transport Economics

340212 - Economic Geography

340213 - Economic Development and Growth

340214 - Urban and Regional Economics
340299 - Applied Economics not elsewhere classified

Exclusions:

Tourism economics is included in Discipline 350500 Tourism.

Discipline 340300 - Economic History and History of Economic Thought

This discipline covers economic history and the history of economic thought. This discipline has two subjects:

340301 - Economic History
340302 - History of Economic Thought

Discipline 340400 - Econometrics

This discipline covers econometrics. It includes time-series analysis, cross-sectional analysis and panel data analysis. This discipline has six subjects:

340401 - Economic Models and Forecasting
340402 - Econometric and Statistical Methods
340403 - Time-Series Analysis
340404 - Cross-Sectional Analysis
340405 - Panel Data Analysis
340499 - Econometrics not elsewhere classified

Exclusions:

Financial econometrics is included in Discipline 350300 Banking, Finance and Investment.

Discipline 349900 - Other Economics

This discipline covers any economics not elsewhere specified. This discipline has three subjects:

349901 - Political Economy
349902 - Comparative Economic Systems
349999 - Economics not elsewhere classified

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Classification Structure - Division 350000 - Commerce, Management, Tourism and Services

Discipline	Subject	Description
350100		Accounting, Auditing and Accountability
	350101	Financial Accounting
	350102	Management Accounting
	350103	Auditing and Accountability
	350104	Taxation
	350105	Bookkeeping
	350106	International Accounting
	350107	Other Accounting

350200**Business and Management**

350201

Human Resources Management

350202

Business Information Systems (incl. Data Processing)

350203

Industrial Relations

350204

Marketing and Market Research

350205

Sales and Distribution

350206

Advertising and Public Relations

350207

Office Services

350208

Organisational Planning and Management

350209

Small Business Management

350210

Quality Management

350211

Innovation and Technology Management

350212

International Business

350213

Electronic Commerce

350299

Business and Management not elsewhere classified

350300**Banking, Finance and Investment**

350301

Finance

350302

Financial Econometrics

350303

Financial Institutions (incl. Banking)

350304

Insurance Studies

350399

Banking, Finance and Investment not elsewhere classified

350400**Transportation**

350401

		Aeronautical Transportation
	350402	Aircrew Training
	350403	Nautical Transportation
	350404	Marine Crew Training
	350405	Road and Rail Transportation
	350499	Transportation not elsewhere classified
350500		Tourism
	350501	Tourism Policy and Planning
	350502	Tourism Resource Appraisal
	350503	Impacts of Tourism
	350504	Tourist Behaviour
	350505	Tourism Economics
	350506	Tourism Forecasting
	350507	Tourism Management
	350508	Tourism Marketing
	350599	Tourism not elsewhere classified
350600		Services
	350601	Hospitality Management
	350602	Food and Hospitality Services
	350603	Real Estate and Valuation
	350604	Professional Services (Legal, Management Consulting, etc.)
	350605	Other Retail Services
	350606	Wholesale Services

350699	Services not elsewhere classified
359900	Other Commerce, Management, Tourism and Services
359999	Other Commerce, Management, Tourism and Services

Definitions

Division 350000 covers Commerce, Management, Tourism and Services. This division has seven disciplines:

- 350100 - Accounting, Auditing and Accountability
- 350200 - Business and Management
- 350300 - Banking, Finance and Investment
- 350400 - Transportation
- 350500 - Tourism
- 350600 - Services
- 359900 - Other Commerce, Management, Tourism and Services

Discipline 350100 - Accounting, Auditing and Accountability

This discipline covers accounting, auditing and accountability. This discipline has seven subjects:

- 350101 - Financial Accounting
- 350102 - Management Accounting
- 350103 - Auditing and Accountability
- 350104 - Taxation
- 350105 - Bookkeeping
- 350106 - International Accounting
- 350107 - Other Accounting

Exclusions::

Business management is included in Discipline 350200 Business and Management.

Discipline 350200 - Business and Management

This discipline covers business management, industrial relations, marketing, public relations and electronic commerce. This discipline has fourteen subjects:

- 350201 - Human Resources Management
- 350202 - Business Information Systems (incl. Data Processing)
- 350203 - Industrial Relations
- 350204 - Marketing and Market Research
- 350205 - Sales and Distribution
- 350206 - Advertising and Public Relations

350207 - Office Services
350208 - Organisational Planning and Management
350209 - Small Business Management
350210 - Quality Management
350211 - Innovation and Technology Management
350212 - International Business
350213 - Electronic Commerce
350299 - Business and Management not elsewhere classified

Exclusions:

Tourism management is included in Discipline 350500 Tourism.

Discipline 350300 - Banking, Finance and Investment

This discipline covers banking, finance and investment. This discipline has five subjects:

350301 - Finance
350302 - Financial Econometrics
350303 - Financial Institutions (incl. Banking)
350304 - Insurance Studies
350399 - Banking, Finance and Investment not elsewhere classified

Exclusions:

Actuarial mathematics is included in Discipline 239900 Other Mathematical Sciences.

Discipline 350400 - Transportation

This discipline covers transportation. This discipline has six subjects:

350401 - Aeronautical Transportation
350402 - Aircrew Training
350403 - Nautical Transportation
350404 - Marine Crew Training
350405 - Road and Rail Transportation
350499 - Transportation not elsewhere classified

Discipline 350500 - Tourism

This discipline covers tourism. This discipline has nine subjects:

350501 - Tourism Policy and Planning
350502 - Tourism Resource Appraisal

350503 - Impacts of Tourism
350504 - Tourist Behaviour
350505 - Tourism Economics
350506 - Tourism Forecasting
350507 - Tourism Management
350508 - Tourism Marketing
350599 - Tourism not elsewhere classified

Discipline 350600 - Services

This discipline covers services. This discipline has seven subjects:

350601 - Hospitality Management
350602 - Food and Hospitality Services
350603 - Real Estate and Valuation
350604 - Professional Services (Legal, Management Consulting, etc.)
350605 - Other Retail Services
350606 - Wholesale Services
350699 - Services not elsewhere classified

Discipline 359900 - Other Commerce, Management, Tourism and Services

This discipline covers commerce, management, tourism and services not elsewhere specified. It has the one subject:

359999 - Other Commerce, Management, Tourism and Services.

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Classification Structure - Division 360000 - Policy and Political Science

Discipline	Subject	Description
360100		Political Science
	360101	Australian Government and Politics
	360102	Comparative Government and Politics
	360103	Federalism and Intergovernmental Relations
	360104	Political Theory and Political Philosophy
	360105	International Relations
	360199	Political Science not elsewhere classified
360200		Policy and Administration
	360201	

	Public Policy
360202	
	Public Administration
360203	
	Research, Science and Technology Policy
360204	
	Defence Studies
360299	
	Policy and Administration not elsewhere classified
369900	
	Other Policy and Political Science
369999	
	Other Policy and Political Science

Definitions

Division 360000 - Policy and Political Science, covers political science, public policy and administration, international relations and other policy studies. This division has three disciplines:

360100 - Political Science
 360200 - Policy and Administration
 369900 - Other Policy and Political Science

Exclusions:

(a) Administration and evaluation of health care and community services is included in Discipline 321200 Public Health and Health Services;
 and

(b) the history and philosophy of science and medicine is included in Discipline 370600 History and Philosophy of Science and Medicine.

Discipline 360100 - Political Science

This discipline covers political science. This discipline has six subjects:

360101 - Australian Government and Politics
 360102 - Comparative Government and Politics
 360103 - Federalism and Intergovernmental Relations
 360104 - Political Theory and Political Philosophy
 360105 - International Relations
 360199 - Political Science not elsewhere classified

Discipline 360200 - Policy and Administration

This discipline covers policy and administration. This discipline has five subjects:

360201 - Public Policy
360202 - Public Administration
360203 - Research, Science and Technology Policy
360204 - Defence Studies
360299 - Policy and Administration not elsewhere classified

Discipline 369900 - Other Policy and Political Science

This discipline covers policy and political science not elsewhere classified. It has the one subject:

369999 - Other Policy and Political Science.

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Classification Structure - Division 370000 - Studies in Human Society

Discipline

Subject

Description

370100

Sociology

370101

Social Theory

370102

Social Policy and Planning

370103

Race and Ethnic Relations

370104

Urban Sociology and Community Studies

370105

Applied Sociology, Program Evaluation and Social Impact Assessment

370106

Sociological Methodology and Research Methods

370107

Social Change

370199

370200		Sociology not elsewhere classified
		Social Work
	370201	Clinical Social Work Practice
	370202	Social Program Evaluation
	370203	Social Policy
	370204	Counselling, Welfare and Community Services
	370299	Social Work not elsewhere classified
370300		Anthropology
	370301	Biological (Physical) Anthropology
	370302	Social and Cultural Anthropology
	370303	Linguistic Anthropology
	370399	Anthropology not elsewhere classified
370400		Human Geography
	370401	Urban and Regional Studies
	370402	Social and Cultural Geography
	370403	Recreation and Leisure Studies
	370499	Human Geography not elsewhere classified
370500		Demography
	370501	Population Trends and Policies
	370502	Migration
	370503	Fertility
	370504	Family and Household Studies
	370599	Demography not elsewhere classified

370600**History and Philosophy of Science and Medicine**

370601

History and Philosophy of Science and Technology

370602

Sociology and Social Studies of Science and Technology

370603

History and Philosophy of Medicine

370699

History and Philosophy of Science and Medicine not elsewhere classified

379900**Other Studies in Human Society**

379901

Gender Specific Studies

379902

Aboriginal Studies

379999

Studies in Human Society not elsewhere classified

Definitions

Division 370000 - Studies in Human Society, covers studies in human society, including sociology, social work, anthropology, human geography, demography and history and philosophy of science and medicine. This division has seven disciplines:

370100 - Sociology

370200 - Social Work

370300 - Anthropology

370400 - Human Geography

370500 - Demography

370600 - History and Philosophy of Science and Medicine

379900 - Other Studies in Human Society

Discipline 370100 - Sociology

This discipline covers sociology. It includes social theory, policy and planning, race and ethnic relations, community studies and social change. This discipline has eight subjects:

370101 - Social Theory

370102 - Social Policy and Planning

370103 - Race and Ethnic Relations

370104 - Urban Sociology and Community Studies

370105 - Applied Sociology, Program Evaluation and Social Impact Assessment

370106 - Sociological Methodology and Research Methods

370107 - Social Change

370199 - Sociology not elsewhere classified

Exclusions:

(a) Sociology of education is included in Discipline 330100 Education Studies; and

(b) criminology is included in Discipline 390400 Law Enforcement.

Discipline 370200 - Social Work

This discipline covers social work. This discipline has five subjects:

370201 - Clinical Social Work Practice

370202 - Social Program Evaluation

370203 - Social Policy

370204 - Counselling, Welfare and Community Services

370299 - Social Work not elsewhere classified

Exclusions:

Urban and regional studies is included in Discipline 370400 Human Geography.

Discipline 370300 - Anthropology

This discipline covers anthropology. This discipline has four subjects:

370301 - Biological (Physical) Anthropology

370302 - Social and Cultural Anthropology

370303 - Linguistic Anthropology

370399 - Anthropology not elsewhere classified

Discipline 370400 - Human Geography

This discipline covers human geography. This discipline has four subjects:

370401 - Urban and Regional Studies

370402 - Social and Cultural Geography

370403 - Recreation and Leisure Studies

370499 - Human Geography not elsewhere classified

Exclusions:

(a) Physical geography is included in Discipline 269900 Other Earth Sciences;

(b) economic geography is included in Discipline 340200 Applied Economics; and

(c) demography is included in Discipline 370500 Demography.

Discipline 370500 - Demography

This discipline covers population and demographic studies. This discipline has five subjects:

370501 - Population Trends and Policies

370502 - Migration

370503 - Fertility

370504 - Family and Household Studies

370599 - Demography not elsewhere classified

Exclusions:

Actuarial studies are included in Discipline 350300 Banking, Finance and Investment.

Discipline 370600 - History and Philosophy of Science and Medicine

This discipline covers the history and philosophy of science and medicine. This discipline has four subjects:

370601 - History and Philosophy of Science and Technology

370602 - Sociology and Social Studies of Science and Technology

370603 - History and Philosophy of Medicine

370699 - History and Philosophy of Science and Medicine not elsewhere classified

Exclusions:

(a) Human bioethics is included in Discipline 321200 Public Health and Health Services; and

(b) science and technology policy is included in Discipline 360200 Political Studies and Administration.

Discipline 379900 - Other Studies in Human Society

This discipline covers studies in human society not elsewhere classified. This discipline has three subjects:

379901 - Gender Specific Studies

379902 - Aboriginal Studies

379999 - Studies in Human Society not elsewhere classified

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Classification Structure - Division 380000 - Behavioural and Cognitive Sciences

Discipline	Subject	Description
380100		Psychology
	380101	Sensory Processes, Perception and Performance
	380102	Learning, Memory, Cognition and Language
	380103	Biological Psychology (Neuropsychology, Psychopharmacology, Physiological Psychology)
	380104	Personality, Abilities and Assessment
	380105	Social and Community Psychology
	380106	Developmental Psychology and Ageing
	380107	Health, Clinical and Counselling Psychology

380100	380108	Industrial and Organisational Psychology
	380109	Psychological Methodology, Design and Analysis
	380199	Psychology not elsewhere classified
	380200	Linguistics
380200	380201	Applied Linguistics and Educational Linguistics
	380202	Computational Linguistics
	380203	Discourse and Pragmatics
	380204	Laboratory Phonetics and Speech Science
	380205	Language in Culture and Society (Sociolinguistics)
	380206	Language in Time and Space (incl. Historical Linguistics, Dialectology)
	380207	Linguistic Structures (incl. Grammar, Phonology, Lexicon, Semantics)
	380208	Lexicography
	380299	Linguistics not elsewhere classified
	380300	Cognitive Science
	380301	Philosophy of Cognition
	380302	Linguistic Processes (incl. Speech Production and Comprehension)
380300	380303	Computer Perception, Memory and Attention
	380304	Neurocognitive Patterns and Neural Networks
	380305	Knowledge Representation and Machine Learning
	380306	Planning and Problem Solving
	380399	Cognitive Science not elsewhere classified
	389900	Other Behavioural and Cognitive Sciences
	389999	

Definitions

Division 380000 covers the Behavioural and Cognitive Sciences. This division has four disciplines:

380100 - Psychology
380200 - Linguistics
380300 - Cognitive Science
389900 - Other Behavioural and Cognitive Sciences

Discipline 380100 - Psychology

This discipline covers psychology. This discipline has ten subjects:

380101 - Sensory Processes, Perception and Performance
380102 - Learning, Memory, Cognition and Language
380103 - Biological Psychology (Neuropsychology, Psychopharmacology, Physiological Psychology)
380104 - Personality, Abilities and Assessment
380105 - Social and Community Psychology
380106 - Developmental Psychology and Ageing
380107 - Health, Clinical and Counselling Psychology
380108 - Industrial and Organisational Psychology
380109 - Psychological Methodology, Design and Analysis
380199 - Psychology not elsewhere classified

Exclusions:

- (a) The application of psychology to an understanding of computer-human interface is included in Discipline 280100 Information Systems;
- (b) neuroscience is included in Discipline 320700 Neurosciences;
- (c) mental health is included in Discipline 321200 Public Health and Health Services;
- (d) sport and exercise psychology is included in Discipline 321400 Human Movement and Sports Science;
- (e) educational psychology is included in Discipline 330100 Education Studies;
- (f) the application of psychology to cognitive science is included in Discipline 380300 Cognitive Science;
- (g) criminology is included in Discipline 390400 Law Enforcement; and
- (h) psychology of religion is included in Discipline 440200 Religion and Religious Traditions.

Discipline 380200 - Linguistics

This discipline covers linguistics. This discipline has nine subjects:

380201 - Applied Linguistics and Educational Linguistics
380202 - Computational Linguistics
380203 - Discourse and Pragmatics
380204 - Laboratory Phonetics and Speech Science
380205 - Language in Culture and Society (Sociolinguistics)
380206 - Language in Time and Space (incl. Historical Linguistics, Dialectology)
380207 - Linguistic Structures (incl. Grammar, Phonology, Lexicon, Semantics)
380208 - Lexicography
380299 - Linguistics not elsewhere classified

Exclusions:

(a) Linguistic anthropology is included in Discipline 370300 Anthropology; and

(b) linguistic processes is included in Discipline 380300 Cognitive Science.

Discipline 380300 - Cognitive Science

This discipline covers cognitive science. This discipline has seven subjects:

380301 - Philosophy of Cognition
380302 - Linguistic Processes (incl. Speech Production and Comprehension)
380303 - Computer Perception, Memory and Attention
380304 - Neurocognitive Patterns and Neural Networks
380305 - Knowledge Representation and Machine Learning
380306 - Planning and Problem Solving
380399 - Cognitive Science not elsewhere classified

Exclusions:

Artificial intelligence is included in Discipline 280200 Artificial Intelligence and Signal and Image Processing.

Discipline 389900 - Other Behavioural and Cognitive Sciences

This discipline covers behavioural and cognitive sciences not elsewhere classified. It has the one subject:

389999 - Other Behavioural and Cognitive Sciences.

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Classification Structure - Division 390000 - Law, Justice and Law Enforcement

Discipline	Subject	Description
390100		Law
	390101	Administrative Law
	390102	Comparative Law
	390103	Constitutionalism and Constitutional Law
	390104	Commercial and Contract Law
	390105	Corporations and Associations Law
	390106	Criminal Law
	390107	Environmental and Natural Resources Law
	390108	

		Family Law
	390109	
		Civil Law
	390110	
		Indigenous Law
	390111	
		International Law
	390112	
		Law and Literature
	390113	
		Legal History
	390114	
		Intellectual Property
	390115	
		Property Law and Conveyancing (excl. Intellectual Property)
	390116	
		Labour Law
	390117	
		Tort Law
	390118	
		Taxation Law
	390119	
		Equity Law
	390120	
		Trust Law
	390199	
		Law not elsewhere classified
390200		
		Professional Development of Law Practitioners
	390201	
		Legal Practice
	390202	
		Adjudication
	390203	
		Legal Education
	390204	
		Professional Ethics
	390299	
		Professional Development of Law Practitioners not elsewhere classified
390300		
		Justice and Legal Studies
	390301	
		Justice Systems and Administration
	390302	
		Jurisprudence and Legal Theory

	390303	Human Rights
	390304	Counselling and Mediation Services
	390305	Law and Society
	390399	Justice and Legal Studies not elsewhere classified
390400		Law Enforcement
	390401	Criminology
	390402	Evidence and Procedure
	390403	Police Administration, Procedures and Practice
	390404	Detection and Prevention of Crime; Security Services
	390405	Correctional Theory and Services; Penology
	390499	Law Enforcement not elsewhere classified
399900		Other Law, Justice and Law Enforcement
	399901	History and Philosophy of Law and Justice
	399999	Law, Justice and Law Enforcement not elsewhere classified

Definitions

Division 390000 covers Law, Justice and Law Enforcement.. This division has five disciplines:

- 390100 - Law
- 390200 - Professional Development of Law Practitioners
- 390300 - Justice and Legal Studies
- 390400 - Law Enforcement
- 399900 - Other Law, Justice and Law Enforcement

Discipline 390100 - Law

This discipline covers law. This discipline has twenty one subjects:

- 390101 - Administrative Law
- 390102 - Comparative Law

390103 - Constitutionalism and Constitutional Law
390104 - Commercial and Contract Law
390105 - Corporations and Associations law
390106 - Criminal Law
390107 - Environmental and Natural Resources Law
390108 - Family Law
390109 - Civil Law
390110 - Indigenous Law
390111 - International Law
390112 - Law and Literature
390113 - Legal History
390114 - Intellectual Property
390115 - Property Law and Conveyancing (excl. Intellectual Property)
390116 - Labour Law
390117 - Tort Law
390118 - Taxation Law
390119 - Equity Law
390120 - Trust Law
390199 - Law not elsewhere classified

Discipline 390200 - Professional Development of Law Practitioners

This discipline covers the professional development of law practitioners. This discipline has five subjects:

390201 - Legal Practice
390202 - Adjudication
390203 - Legal Education
390204 - Professional Ethics
390299 - Professional Development of Law Practitioners not elsewhere classified

Discipline 390300 Justice and Legal Studies

This discipline covers justice and legal studies. This discipline has six subjects:

390301 - Justice Systems and Administration
390302 - Jurisprudence and Legal Theory
390303 - Human Rights
390304 - Counselling and Mediation Services
390305 - Law and Society
390399 - Justice and Legal Studies not elsewhere classified

Discipline 390400 - Law Enforcement

This discipline covers law enforcement. This discipline has six subjects:

390401 - Criminology
390402 - Evidence and Procedure
390403 - Police Administration, Procedures and Practice
390404 - Detection and Prevention of Crime; Security Services
390405 - Correctional Theory and Services; Penology
390499 - Law Enforcement not elsewhere classified

Discipline 399900 - Other Law, Justice and Law Enforcement

This discipline covers law, justice and law enforcement not elsewhere classified. This discipline has two subjects:

399901 - History and Philosophy of Law and Justice
399999 - Law, Justice and Law Enforcement not elsewhere classified

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Classification Structure - Division 400000 - Journalism, Librarianship and Curatorial Studies

Discipline	Subject	Description
400100		Journalism, Communication and Media
	400101	Journalism
	400102	Technical Writing
	400103	Professional Creative Writing
	400104	Communication and Media Studies
	400199	Journalism, Communication and Media not elsewhere classified
400200		Librarianship
	400201	Librarianship

400300	
	Curatorial Studies
400301	Museum Studies
400302	Archival Studies
400303	Materials Conservation
400399	Curatorial Studies not elsewhere classified
409900	
	Other Journalism, Librarianship and Curatorial Studies
409999	Other Journalism, Librarianship and Curatorial Studies

Definitions

Division 400000 covers Journalism, Librarianship and Curatorial Studies. This division has four disciplines:

- 400100 - Journalism, Communication and Media
- 400200 - Librarianship
- 400300 - Curatorial Studies
- 409900 - Other Journalism, Librarianship and Curatorial Studies

Discipline 400100 - Journalism, Communication and Media

This discipline covers media and communication studies and journalism. This discipline has five subjects:

- 400101 - Journalism
- 400102 - Technical Writing
- 400103 - Professional Creative Writing
- 400104 - Communication and Media Studies
- 400199 - Journalism, Communication and Media not elsewhere classified

Exclusions:

Communication technologies is included in Discipline 291700 Communications Technologies.

Discipline 400200 - Librarianship

This discipline covers librarianship. It has the one subject:

- 400201 - Librarianship.

Discipline 400300 - Curatorial Studies

This discipline covers museum studies, archival studies and other curatorial studies. This discipline has four subjects:

400301 - Museum Studies

400302 - Archival Studies

400303 - Materials Conservation

400399 - Curatorial Studies not elsewhere classified

Discipline 409900 - Other Journalism, Librarianship and Curatorial Studies

This discipline covers journalism, librarianship and curatorial studies not elsewhere classified. It has the one subject:

409999 - Other Journalism, Librarianship and Curatorial Studies.

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Classification Structure - Division 410000 - The Arts

Discipline	Subject	Description
410100		Performing Arts
	410101	Music
	410102	Drama, Theatre and Performance Studies
	410103	Dance
	410104	Indigenous Performing Arts
	410199	Performing Arts not elsewhere classified
410200		Visual Arts and Crafts
	410201	Graphic Arts
	410202	

		Fine Arts (incl. Sculpture and Painting)
	410203	
		Photography
	410204	
		Crafts
	410299	
		Visual Arts and Crafts not elsewhere classified
410300		
		Cinema, Electronic Arts and Multimedia
	410301	
		Film and Video
	410302	
		Cinema Studies
	410303	
		Multimedia
	410304	
		Other Cinema and Electronic Arts
410400		
		Design Studies
	410401	
		Design Theory
	410402	
		Design Innovation
	410403	
		Design Studio Practice
	410404	
		Design Management and Professional Practice
	410405	
		Design History and Cultural Theory
	410499	
		Design Studies not elsewhere classified
419900		
		Other Arts
	419901	
		Art History and Appreciation
	419999	
		The Arts not elsewhere classified

Definitions

Division 410000 - the Arts, covers the study of the arts, including music, fine arts and drama. It also includes study of the cinema, electronic arts and design studies. This division has five disciplines:

410100 - Performing Arts

410200 - Visual Arts and Crafts
410300 - Cinema, Electronic Arts and Multimedia
410400 - Design Studies
419900 - Other Arts

Discipline 410100 - Performing Arts

This discipline covers the performing arts. This discipline has five subjects:

410101 - Music
410102 - Drama, Theatre and Performance Studies
410103 - Dance
410104 - Indigenous Performing Arts
410199 - Performing Arts not elsewhere classified

Discipline 410200 - Visual Arts and Crafts

This discipline covers the visual arts and crafts. This discipline has five subjects:

410201 - Graphic Arts
410202 - Fine Arts (incl. Sculpture and Painting)
410203 - Photography
410204 - Crafts
410299 - Visual Arts and Crafts not elsewhere classified

Discipline 410300 - Cinema, Electronic Arts and Multimedia

This discipline covers study of the cinema, electronic arts and multimedia. This discipline has four subjects:

410301 - Film and Video
410302 - Cinema Studies
410303 - Multimedia
410304 - Other Cinema and Electronic Arts

Exclusions:

(a) Photography is included in Discipline 410200 Visual Arts and Crafts; and

(b) screen and media culture is included in Discipline 420300 Cultural Studies.

Discipline 410400 - Design Studies

This discipline covers design studies, including related fields such as industrial arts and design and ergonomics. This discipline has six subjects:

410401 - Design Theory
410402 - Design Innovation
410403 - Design Studio Practice
410404 - Design Management and Professional Practice
410405 - Design History and Cultural Theory
410499 - Design Studies not elsewhere classified

Exclusions:

(a) Architecture is included in Discipline 310100 Architecture and Urban Environment; and

(b) fine arts is included in Discipline 410200 Visual Arts and Crafts.

Discipline 419900 - Other Arts

This discipline covers the arts not elsewhere classified. This discipline has two subjects:

419901 - Art History and Appreciation
419999 - The Arts not elsewhere classified

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Classification Structure - Division 420000 - Language and Culture

Discipline	Subject	Description
420100		Language Studies
	420101	English
	420102	English as a Second Language
	420103	Aboriginal Languages
	420104	Latin
	420105	Greek
	420106	French
	420107	German
	420108	

		Italian
	420109	
		Spanish
	420110	
		Russian
	420111	
		Other European Languages
	420112	
		Chinese Languages
	420113	
		Japanese
	420114	
		Indonesian Languages
	420115	
		Malaysian Languages
	420116	
		Indian Languages
	420117	
		Korean
	420118	
		Vietnamese Languages
	420119	
		Thai Languages
	420120	
		Other Asian Languages
	420121	
		Comparative Language Studies
	420122	
		Oracy and Oral Traditions
	420199	
		Language Studies not elsewhere classified
420200		
		Literature Studies
	420201	
		British and Irish
	420202	
		Australian and New Zealand
	420203	
		North American
	420204	
		South American
	420205	
		Latin and Classical Greek
	420206	
		French

	420207	German
	420208	Italian
	420209	Russian
	420210	Other European
	420211	Chinese
	420212	Japanese
	420213	Indonesian
	420214	Indian
	420215	Other Asian
	420216	Comparative Literature Studies
	420217	Textual Transmission and the Material Record
	420218	Literary Theory
	420219	Stylistics
	420220	Folklore, Myth and Mythologies
	420299	Literature Studies not elsewhere classified
420300		Cultural Studies
	420301	Cultural Policy Studies
	420302	Cultural Theory
	420303	Culture, Gender, Sexuality
	420304	Screen and Media Culture
	420305	Aboriginal Cultural Studies
	420306	Postcolonial and Global Cultural Studies
	420307	

		Consumption and Everyday Life
	420308	
		Multicultural, Intercultural and Cross-cultural Studies
	420399	
		Cultural Studies not elsewhere classified
429900		
		Other Language and Culture
	429999	
		Other Language and Culture

Definitions

Division 420000 - Language and Culture, covers language, literature and cultural studies. This division has four disciplines:

420100 - Language Studies

420200 - Literature Studies

420300 - Cultural Studies

429900 - Other Language and Culture

Exclusions:

Linguistics is included in Discipline 380200 Linguistics

Discipline 420100 - Language Studies

This discipline covers language studies. This discipline has twenty three subjects:

420101 - English

420102 - English as a Second Language

420103 - Aboriginal Languages

420104 - Latin

420105 - Greek

420106 - French

420107 - German

420108 - Italian

420109 - Spanish

420110 - Russian

420111 - Other European Languages

420112 - Chinese Languages

420113 - Japanese

420114 - Indonesian Languages

420115 - Malaysian Languages

420116 - Indian Languages

420117 - Korean

420118 - Vietnamese Languages

420119 - Thai Languages
420120 - Other Asian Languages
420121 - Comparative Language Studies
420122 - Oracy and Oral Traditions
420199 - Language Studies not elsewhere classified

Exclusions:

Linguistics is included in Discipline 380200 Linguistics.

Discipline 420200 - Literature Studies

This discipline covers literature and literary studies. This discipline has twenty one subjects:

420201 - British and Irish
420202 - Australian and New Zealand
420203 - North American
420204 - South American
420205 - Latin and Classical Greek
420206 - French
420207 - German
420208 - Italian
420209 - Russian
420210 - Other European
420211 - Chinese
420212 - Japanese
420213 - Indonesian
420214 - Indian
420215 - Other Asian
420216 - Comparative Literature Studies
420217 - Textual Transmission and the Material Record
420218 - Literary Theory
420219 - Stylistics
420220 - Folklore, Myth and Mythologies
420299 - Literature Studies not elsewhere classified

Discipline 420300 - Cultural Studies

This discipline covers cultural studies. This discipline has nine subjects:

420301 - Cultural Policy Studies
420302 - Cultural Theory
420303 - Culture, Gender, Sexuality
420304 - Screen and Media Culture

420305 - Aboriginal Cultural Studies
420306 - Postcolonial and Global Cultural Studies
420307 - Consumption and Everyday Life
420308 - Multicultural, Intercultural and Cross-cultural Studies
420399 - Cultural Studies not elsewhere classified

Discipline 429900 - Other Language and Culture

This discipline covers language and culture not elsewhere classified. It has the one subject

429999 -Other Language and Culture

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Classification Structure - Division 430000 - History and Archaeology

Discipline	Subject	Description
430100		Historical Studies
	430101	History: Australian
	430102	History: Asian
	430103	History: Pacific
	430104	History: North American
	430105	History: Latin American
	430106	History: African
	430107	History: British
	430108	

		History: European
	430109	
		History: Middle Eastern
	430110	
		History: Classical Greek and Roman
	430111	
		History: Other
	430112	
		Biography
	430199	
		Historical Studies not elsewhere classified
430200		
		Archaeology and Prehistory
	430201	
		Archaeology of Hunter-Gatherer Societies (incl. Pleistocene Archaeology)
	430202	
		Archaeology of Agricultural and Pastoral Societies
	430203	
		Archaeology of Complex Societies: Europe, the Mediterranean and the Levant
	430204	
		Archaeology of Complex Societies: Asia, Africa, Oceania and the Americas
	430205	
		Historical Archaeology (incl. Industrial Archaeology)
	430206	
		Maritime Archaeology
	430207	
		Archaeological Science
	430299	
		Archaeology and Prehistory not elsewhere classified
439900		
		Other History and Archaeology
	439999	
		Other History and Archaeology

Definitions

Division 430000 covers History and Archaeology. This division has three disciplines:

430100 - Historical Studies

430200 - Archaeology and Prehistory

439900 - Other History and Archaeology

Discipline 430100 - Historical Studies

This discipline covers the study of history and biography. This discipline has thirteen subjects:

430101 - History: Australian
430102 - History: Asian
430103 - History: Pacific
430104 - History: North American
430105 - History: Latin American
430106 - History: African
430107 - History: British
430108 - History: European
430109 - History: Middle Eastern
430110 - History: Classical Greek and Roman
430111 - History: Other
430112 - Biography
430199 - Historical Studies not elsewhere classified

Exclusions:

- (a) The history of education is included in Discipline 330100 Education Studies;
- (b) the history of science and medicine is included in Discipline 370600 History and Philosophy of Science and Medicine;
- (c) the history of law and justice is included in Discipline 399900 Other Law, Justice and Law Enforcement; and
- (d) historical archaeology is included in Discipline 430200 Archaeology and Prehistory.

Discipline 430200 - Archaeology and Prehistory

This discipline covers archaeology and prehistory. This discipline has eight subjects:

430201 - Archaeology of Hunter-Gatherer Societies (incl. Pleistocene Archaeology)
430202 - Archaeology of Agricultural and Pastoral Societies
430203 - Archaeology of Complex Societies: Europe, the Mediterranean and the Levant
430204 - Archaeology of Complex Societies: Asia, Africa, Oceania and the Americas
430205 - Historical Archaeology (incl. Industrial Archaeology)
430206 - Maritime Archaeology
430207 - Archaeological Science
430299 - Archaeology and Prehistory not elsewhere classified

Discipline 439900 - Other History and Archaeology

This discipline covers history and archaeology not elsewhere classified. It has the one subject:

439999 - Other History and Archaeology

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Classification Structure - Division 440000 - Philosophy and Religion

Discipline	Subject	Description
440100		Philosophy
	440101	Aesthetics
	440102	Epistemology
	440103	Ethical Theory
	440104	Applied Ethics (incl. Bioethics and Environmental Ethics)
	440105	History of Philosophy and History of Ideas
	440106	Logic
	440107	Metaphysics
	440108	

	Philosophy of Language
440109	
	Philosophy of Mind (excl. Cognition)
440110	
	Social Philosophy
440111	
	Phenomenology
440112	
	Hermeneutic Theory
440113	
	Comparative Philosophy
440114	
	Philosophy of Action
440115	
	Philosophy of Specific Cultures (e.g. Ancient Greek, Chinese)
440199	
	Philosophy not elsewhere classified
440200	
	Religion and Religious Traditions
440201	
	Hindu Studies
440202	
	Buddhist Studies
440203	
	Jewish Studies
440204	
	Christian Theology (incl. Biblical Studies and Church History)
440205	
	Islamic Studies
440206	
	Studies in Other Religious Traditions
440207	
	Religion and Society
440208	
	Psychology of Religion
440209	
	Philosophy of Religion
440299	
	Religion and Religious Traditions not elsewhere classified
449900	
	Other Philosophy and Religion
449999	
	Other Philosophy and Religion

Definitions

Division 440000 covers Philosophy and Religion. This division has three disciplines:

440100 - Philosophy
440200 - Religion and Religious Traditions
449900 - Other Philosophy and Religion

Discipline 440100 - Philosophy

This discipline covers philosophy. This discipline has sixteen subjects:

440101 - Aesthetics
440102 - Epistemology
440103 - Ethical Theory
440104 - Applied Ethics (incl. Bioethics and Environmental Ethics)
440105 - History of Philosophy and History of Ideas
440106 - Logic
440107 - Metaphysics
440108 - Philosophy of Language
440109 - Philosophy of Mind (excl. Cognition)
440110 - Social Philosophy
440111 - Phenomenology
440112 - Hermeneutic Theory
440113 - Comparative Philosophy
440114 - Philosophy of Action
440115 - Philosophy of Specific Cultures (e.g. Ancient Greek, Chinese)
440199 - Philosophy not elsewhere classified

Exclusions:

- (a) Mathematical logic is included in Discipline 230100 Mathematics;
- (b) human bioethics is included in Discipline 321200 Public Health and Health Services;
- (c) political philosophy is included in Discipline 360100 Political Science;
- (d) the philosophy of cognition is included in Discipline 380300 Cognitive Science;
- (e) the philosophy of science and medicine is included in Discipline 390600 History and Philosophy of Science and Medicine;
- (f) the philosophy of law and justice is included in Discipline 399900 Other Law, Justice and Law Enforcement; and
- (g) the philosophy of religion is included in Discipline 440200 Religion and Religious Traditions.

Discipline 440200 - Religion and Religious Traditions

This discipline covers the study of religion. It includes theology, comparative religion and the philosophy of religion. This discipline has ten subjects:

- 440201 - Hindu Studies
- 440202 - Buddhist Studies
- 440203 - Jewish Studies
- 440204 - Christian Theology (incl. Biblical Studies and Church History)
- 440205 - Islamic Studies
- 440206 - Studies in Other Religious Traditions
- 440207 - Religion and Society
- 440208 - Psychology of Religion
- 440209 - Philosophy of Religion
- 440299 - Religion and Religious Traditions not elsewhere classified

Exclusions:

(a) Language studies are included in Discipline 420100 Language Studies; and

(b) folklore, myth and mythologies are included in Discipline 420200 Literature Studies.

Discipline 449900 - Other Philosophy and Religion

This discipline covers philosophy and religion not elsewhere classified. It has the one subject

449999 - Other Philosophy and Religion.

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Nature and purpose of the SEO classification

1. The SEO Classification allows R&D data to be classified according to the researcher's perceived purpose. The purpose categories take account of processes, products, health, education and other social and environmental aspects of particular interest.
2. A purpose classification such as the SEO provides a set of categories which collectively exhaust all the objectives of research. In this respect, the scope of the SEO is more extensive than a classification of economic activities such as the Australian and New Zealand Standard Industrial Classification (ANZSIC), because not all R&D has an economic motive or context.

Structure of the SEO classification

3. The SEO Classification is arranged in a hierarchical structure. It has 5 divisions, 18 subdivisions, 107 groups and 594 classes.
4. The divisions and subdivisions are:

Division 1 - Defence

Subdivision 610000 Defence

Division 2 - Economic Development

Subdivision 620000 Plant Production and Plant Primary Products

Subdivision 630000	Animal Production and Animal Primary Products
Subdivision 640000	Mineral Resources (Excl. Energy)
Subdivision 650000	Energy Resources
Subdivision 660000	Energy Supply
Subdivision 670000	Manufacturing
Subdivision 680000	Construction
Subdivision 690000	Transport
Subdivision 700000	Information and Communication Services
Subdivision 710000	Commercial Services and Tourism
Subdivision 720000	Economic Framework

Division 3 - Society

Subdivision 730000	Health
Subdivision 740000	Education and Training
Subdivision 750000	Social Development and Community Services

Division 4 - Environment

Subdivision 760000	Environmental Policy Frameworks and other aspects
Subdivision 770000	Environmental Management

Division 5 - Non-Oriented Research

Subdivision 780000	Non-Oriented Research
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5. Subdivisions, groups and classes are all assigned six-digit codes. Subdivisions are uniquely identified by the first two digits and the remainder of the code is zero filled. Groups are uniquely identified by the first four digits and the remainder of the code is zero filled. Classes have unique six-digit codes.

6. There are ninety-nine possible categories at the subdivision, group and class levels to allow for future expansion of the classification. The divisions are not reflected in the code system at the subdivision or finer levels.

Guidelines for classifying R&D by SEO

7. The following general procedures are aimed to ensure consistent and successful classification of R&D data.

8. A Research Project is to be allocated to a class in a hierarchical manner. This is achieved by first determining the SEO division in which the research is being performed, then the most relevant subdivision within that division, then the most relevant group within that subdivision, and finally by selecting the relevant class within a chosen group.

9. It is vital to firstly identify the higher level classifications for the Research Project as some classes, although within different groups, have identical class titles.

10. In general, a Research Project is to be classified to one class only. There are cases however where a large Research Project is directed towards more than one socio-economic objective. In such cases, the aim should be to allocate R&D resources on a proportional basis.

11. Where a defined class cannot be identified within a group for a Research Project, the 'Other' or 'n.e.c.' category at the class level is to be used.

Relationship between the SEO classification and the ANZSIC

12. In studying industry performance, it is possible to compare trends in industry with the levels of R&D directed towards particular industries. ABS statistics have been compiled according to the Australian and New Zealand Standard Industrial Classification (ANZSIC).

13. A broad comparison with the ANZSIC categories is shown below.

SEO	ANZSIC
Defence	Subdivision 82 - Defence
Economic Development	Division A - Agriculture, Forestry, Fishing and Hunting
	Division B - Mining
	Division C - Manufacturing
	Division D - Electricity, Gas and Water Supply
	Division E - Construction
	Division F - Wholesale Trade
	Division G - Retail Trade
	Division H - Accommodation, Cafes and Restaurants
	Division I - Transport and Storage
	Division J - Communication Services
	Division K - Finance and Insurance
	Division L - Property and Business Services
Society	Subdivision 81 - Government Administration
	Division N - Education
	Division O - Health and Community Services
	Division P - Cultural and Recreational Services
	Subdivision 96 - Other Services
Environment	n.a.
Non-Oriented Research	n.a.

14. The ANZSIC is a classification of industries. Business units reporting data to a range of ABS censuses and surveys are classified to the ANZSIC on the basis of their predominant economic activity (e.g. what they do to generate income). Normally income is generated through the sale of goods and services produced by the business or bought in from other businesses. An industry as represented in ABS statistics is made up of businesses which are classified to it in accordance with the ANZSIC.

15. When comparing R&D data classified by the SEO with industrial statistics based on the ANZSIC, there are some important considerations

to be noted:

- Classifying to an SEO category is subjective, i.e. the category is chosen by the data provider to indicate the main purpose of R&D. Classifying a business to an industry is generally derived objectively through information about its main income generating activity.
- SEO categories do not always correspond with ANZSIC categories on a one to one basis and do not also necessarily correspond with identifiable target industries. For example where the environment is the main potential beneficiary of the R&D, there is no set of business units equivalent and therefore no ANZSIC class is applicable.
- Some SEO categories are too broad and cannot be correlated to ANZSIC industries. For example, R&D towards improving road safety has potential benefits to a wide range of industries, community services and individuals. There would be some effect on businesses within the transport industry, but this may be incidental to attempts at generally reducing the burden on emergency services, medical services, insurance services, disability services, police services, legal services, etc.
- The nature of R&D is such that there may be no observable effect on ABS industry level statistics, or at least the effect may be difficult to assess. The positive effects of R&D may be concealed at the aggregate industry level because of variation, for a variety of reasons, in data from establishments in the same industry. Additionally, in particular instances, R&D may not lead to initiatives which proceed beyond the test environment.

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Classification Structure - Subdivision 610000 - Defence

Group	Class	Title
610100		Defence
	610101	Navy
	610102	Army
	610103	Air Force
	610104	Combined Operations
	610199	Other

Definitions

Division 1 - Defence, covers R&D directed towards the development of defence or national security, including R&D undertaken for military reasons regardless of their content or whether they have secondary civil applications; and towards the development and testing of military or

defence related equipment and materials. It includes nuclear and space R&D undertaken for military purposes. It has only one group.

Group, 610100 - Defence, has five classes:

610101 - Navy
610102 - Army
610103 - Air force
610104 - Combined operations
610199 - Other

Exclusions:

R&D directed towards:

(a) improving the methods of producing or processing military or defence related equipment and materials is included in the appropriate groups in Division 2 Economic Development, e.g. military transport equipment is included in Group 671100 Transport Equipment;

(b) the development of measurement standards and calibration for defence related products and processes is also included in Division 2 Economic Development, Subdivision 720000 Economic Framework, Group 720500 Measurement Standards and Calibration Services; and

(c) civil oriented projects although funded by defence agencies is included in the appropriate groups in other divisions, e.g. communication is included in Subdivision 700000 Information and Communication Services, Group 700300 Communication Services.

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Division 2 - Economic Development, covers R&D directed towards the various areas of economic development. Such R&D is undertaken in support of plant and animal production, developing mineral and energy resources, energy provision or supply and the development of manufacturing industry, construction industry and transportation systems (incl. safety), the provision of information and communication, the provision of commercial services to all areas of economic development and the contribution to understanding the economic framework within which development takes place.

R&D directed towards improving the methods of producing or processing military or defence materials and equipment is included in this division.

It includes R&D directed towards 'clean production' to minimise emissions to the environment from industrial processes or towards protection of the production site (e.g. sustainability of agricultural production systems). This division has eleven subdivisions:

- 620000 - Plant Production and Plant Primary Products
- 630000 - Animal Production and Animal Primary Products
- 640000 - Mineral Resources (Excl. Energy)
- 650000 - Energy Resources
- 660000 - Energy Supply
- 670000 - Manufacturing
- 680000 - Construction
- 690000 - Transport
- 700000 - Information and Communication Services
- 710000 - Commercial Services and Tourism

Exclusions:

R&D directed towards the development and testing of military or defence related equipment and materials is included in Division 1 - Defence.

Full details of the classification structure and definitions for each subdivision follow this document.

This section contains the following subsection :

[620000 - Plant Production and Plant Primary Products](#)

[630000 - Animal Production and Animal Primary Products](#)

[640000 - Mineral Resources \(Excl. Energy\)](#)

[650000 - Energy Resources](#)

[660000 - Energy Supply](#)

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Classification Structure - Subdivision 620000 - Plant Production and Plant Primary Products

(See Division 2, Introduction for more information)

Group

Class

Title

620100

Field Crops

620101

Wheat

620102

Barley

620103

Rice

620104

Other cereals

620105

Oilseeds

620106

Sugar

	620107	
		Cotton
	620108	
		Grain legumes
	620199	
		Field crops not elsewhere classified
620200		
		Horticultural Crops
	620201	
		Stone fruit
	620202	
		Pome fruit
	620203	
		Citrus
	620204	
		Grapes
	620205	
		Tropical fruit
	620206	
		Berry fruit
	620207	
		Tree nuts
	620208	
		Vegetables
	620209	
		Ornamentals, Australian natives and nursery plants
	620299	
		Horticultural crops not elsewhere classified
620300		
		Forestry
	620301	
		Native forests
	620302	
		Softwood plantations
	620303	
		Hardwood plantations
	620304	
		Harvesting and transport of forest products
	620305	
		Integration of farm and forestry
	620399	
		Forestry not elsewhere classified
620400		
		Primary Products from Plants
	620401	

	Fresh fruit and vegetables (post harvest)
620402	Unprocessed cereals
620403	Tobacco leaf
620404	Cotton lint and cotton seed
620499	Primary plant products not elsewhere classified
620500	Sustainable Plant Production Systems
620501	Field crops
620502	Horticultural crops
620503	Forestry
620504	Primary products from plants

Definitions

Subdivision 620000 - Plant Production and Plant Primary Products, covers R&D directed towards improving the characteristics, propagation and growing of field and horticultural crops, native forest, hardwood and softwood plantations; and the production of associated primary plant products.

This subdivision also includes R&D directed towards improving the post-harvest processing, preparation, handling, storage and marketing of primary plant products and R&D directed towards developing sustainable plant production systems. This subdivision has five groups:

620100 - Field Crops
620200 - Horticultural Crops
620300 - Forestry
620400 - Primary Products from Plants
620500 - Sustainable Plant Production Systems

Exclusions:

R&D directed towards the manufacture of processed plant products and their primary products is included in Subdivision 670000 Manufacturing.

Group 620100 - Field Crops

This group covers R&D directed towards improving the characteristics and growing of wheat, barley, coarse grains, rice, oilseeds and grain legumes, sugar, cotton or other field crops.

This group includes R&D directed towards harvesting field crops. This group has nine classes:

620101 - Wheat
620102 - Barley
620103 - Rice
620104 - Other cereals
620105 - Oilseeds
620106 - Sugar
620107 - Cotton
620108 - Grain legumes
620199 - Field crops not elsewhere classified

Exclusions:

R&D directed towards:

- (a) transportation, storage and marketing of primary products from field crops is included in Group 620400 Primary Products from Plants;
- (b) environmental management aspects of growing field crops is included in Group 620500 Sustainable Plant Production Systems;
- (c) growing, harvesting and storage of pasture, browse or fodder crops is included in Group 630200 Pasture, Browse and Fodder Crops; and
- (d) manufacture of processed products from field crops is included in either Group 670100 Processed Food Products and Beverages, Group 670200 Fibre Processing and Textiles; Footwear and Leather Products or Group 671600 Other Manufactured Products.

Group 620200 - Horticultural Crops

This group covers R&D directed towards improving the characteristics, propagation and growing of stone and pome fruit, citrus, grapes, tropical and berry fruit, tree nuts, vegetables, ornamentals, Australian native plants, nursery plants and other horticultural crops.

This group includes R&D directed towards harvesting horticultural crops. This group has ten classes:

620201 - Stone fruit
620202 - Pome fruit
620203 - Citrus
620204 - Grapes
620205 - Tropical fruit
620206 - Berry fruit
620207 - Tree nuts
620208 - Vegetables
620209 - Ornamentals, Australian natives and nursery plants

620299 - Horticultural crops not elsewhere classified

Exclusions:

R&D directed towards:

(a) transportation, storage and marketing of primary horticultural products, including post-harvest handling of fresh fruit and vegetables and other horticultural crops is included in Group 620400 Primary Products from Plants;

(b) environmental management aspects of growing horticultural crops is included in Group 620500 Sustainable Plant Production Systems; and

(c) manufacture of processed products from horticultural crops is included in either Group 670100 Processed Food Products and Beverages or Group 671600 Other Manufactured Products.

Group 620300 - Forestry

This group covers R&D directed towards improving the operation, maintenance and protection (incl. forest fire-fighting and control) of native forests, softwood or hardwood plantations.

This group includes R&D directed towards the harvesting or transportation of wood and other forest products from forests and plantations and towards the integration of farm and forestry. This group has six classes:

620301 - Native forests

620302 - Softwood plantations

620303 - Hardwood plantations

620304 - Harvesting and transport of forest products

620305 - Integration of farm and forestry

620399 - Forestry not elsewhere classified

Exclusions:

R&D directed towards:

(a) environmental management aspects of growing native or plantation forests (incl. native and exotic species not intended for timber or paper production) is included in Group 620500 Sustainable Plant Production Systems; and

(b) processing or manufacture of wood, wood and paper products is included in either Group 670300 Wood, Wood Products and Paper or Group 671600 Other Manufactured Products.

Group 620400 - Primary Products from Plants

This group covers R&D directed towards improving post-harvest processing or handling (incl. transportation, storage and marketing) of fresh fruit or vegetables, unprocessed cereals, tobacco leaf, cotton lint, cotton seed and other primary plant products. This group has five classes:

620401 - Fresh fruit and vegetables (post harvest)
620402 - Unprocessed cereals
620403 - Tobacco leaf
620404 - Cotton lint and cotton seed
620499 - Primary plant products not elsewhere classified

Exclusions:

R&D directed towards:

(a) environmental management aspects of preparing or producing primary plant products is included in Group 620500 Sustainable Plant Production Systems;

(b) manufacture of processed products from primary plant products is included in either Group 670100 Processed Food Products and Beverages or Group 670200 Fibre Processing and Textiles; Footwear and Leather Products; and

(c) manufacture of tobacco products is included in Class 671601 Tobacco products.

Group 620500 - Sustainable Plant Production Systems

This group covers R&D directed towards developing sustainable plant production systems. It includes research into soils, water usage and pests if the prime purpose of the research is field crops, horticultural crops, forestry and primary products from plants which are more environmentally and economically sustainable. This group has four classes:

620501 - Field crops
620502 - Horticultural crops
620503 - Forestry
620504 - Primary products from plants

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Classification Structure - Subdivision 630000 - Animal Production and Animal Primary Products

(See Division 2, Introduction for more information)

Group	Class	Title
630100		Livestock
	630101	Sheep - meat
	630102	Sheep - wool
	630103	Beef cattle
	630104	Dairy cattle
	630105	Pigs
	630106	Poultry
	630107	

		Minor livestock (e.g. horses, goats, deer)
	630199	
		Livestock not elsewhere classified
630200		
		Pasture, Browse and Fodder Crops
	630201	
		Sown legumes
	630202	
		Sown grasses
	630203	
		Browse crops
	630204	
		Fodder crops
	630205	
		Native vegetation
	630299	
		Other
630300		
		Fish
	630301	
		Fisheries - commercial
	630302	
		Fisheries - recreational
	630303	
		Aquaculture
	630399	
		Fish not elsewhere classified
630400		
		Primary Products from Animals
	630401	
		Minimally processed fish
	630402	
		Minimally processed milk
	630403	
		Raw wool
	630404	
		Hides and skins
	630499	
		Primary animal products not elsewhere classified
630500		
		Sustainable Animal Production Systems
	630501	
		Livestock
	630502	
		Pasture, browse and fodder crops

630503	
	Fish
630504	
	Primary products from animals

Definitions

Subdivision 630000 - Animal Production and Animal Primary Products covers R&D directed towards breeding and farming livestock and the production of associated primary livestock products.

This subdivision includes R&D directed towards growing pasture, browse and fodder crops; commercial (incl. aquaculture) and recreational fishing; the preparation, transportation and storage of primary livestock products such as unprocessed milk and raw wool and developing sustainable animal production systems. This subdivision has five groups:

- 630100 - Livestock
- 630200 - Pasture, Browse and Fodder Crops
- 630300 - Fish
- 630400 - Primary Products from Animals
- 630500 - Sustainable Animal Production Systems

Exclusions:

R&D directed towards the manufacture of processed animal products (incl. fish) and their primary products is included in the appropriate groups in Subdivision 670000 Manufacturing.

Group 630100 - Livestock

This group covers R&D directed towards farming or breeding livestock including sheep for meat or wool, beef and dairy cattle, horses, pigs, poultry, deer, goats and other livestock (incl. beekeeping, pet breeding) not elsewhere classified. This group has eight classes:

- 630101 - Sheep - meat
- 630102 - Sheep - wool
- 630103 - Beef cattle
- 630104 - Dairy cattle
- 630105 - Pigs
- 630106 - Poultry
- 630107 - Minor livestock (e.g. horses, goats, deer)
- 630199 - Livestock not elsewhere classified

Exclusions:

R&D directed towards:

(a) preparation, transportation, storage and marketing of primary livestock products, e.g. unprocessed milk, raw wool, raw hides and skins, is included in Group 630400 Primary Products from Animals;

(b) environmental management aspects of livestock farming and preparation of livestock products is included in Group 630500 Sustainable Animal Production Systems; and

(c) manufacture of processed livestock products, e.g. processed milk and processed skins, is included in either Group 670100 Processed Food Products and Beverages, Group 670200 Fibre Processing and Textiles; Footwear and Leather Products or Group 671600 Other Manufactured Products.

Group 630200 - Pasture, Browse and Fodder Crops

This group covers R&D directed towards growing sown legumes, sown grasses, browse and fodder crops, native vegetation and any other pasture crops.

This group includes R&D directed towards harvesting, preparation and storage of pasture, browse and fodder crops. This group has six classes:

630201 - Sown legumes

630202 - Sown grasses

630203 - Browse crops

630204 - Fodder crops

630205 - Native vegetation

630299 - Other

Exclusions:

R&D directed towards:

(a) growing field crops is included in Group 620100 Field Crops;

(b) propagating and growing horticultural crops is included in Group 620200 Horticultural Crops; and

(c) the environmental management aspects of growing pasture and fodder crops is included in Group 630500 Sustainable Animal Production Systems.

Group 630300 - Fish

This group covers R&D directed towards commercial and recreational fishing. This includes R&D directed towards fishing wild prawns, rock lobsters, and other marine species in the ocean, coastal and estuarine waters.

This group also includes R&D directed towards aquaculture or fish farming (incl. breeding or harvesting fish, crustaceans, oyster and other molluscs) in a controlled environment. This group has four classes:

630301 - Fisheries - commercial

630302 - Fisheries - recreational

630303 - Aquaculture

630399 - Fish not elsewhere classified

Exclusions:

R&D directed towards:

- (a) preparation, transport, storage and marketing of minimally processed fish is included in Group 630400 Primary Products from Animals;
- (b) environmental management aspects of fishing is included in Group 630500 Sustainable Animal Production Systems; and
- (c) manufacture of processed fish products is included in either Group 670100 Processed Food Products and Beverages or Group 671600 Other Manufactured Products.

Group 630400 - Primary Products from Animals

This group covers R&D directed towards improving the preparation or handling (incl. transportation, storage and marketing) of primary livestock products such as minimally processed fish, unprocessed milk, raw wool and other animal fibres, hides and skins. This group has five classes:

- 630401 - Minimally processed fish
- 630402 - Minimally processed milk
- 630403 - Raw wool
- 630404 - Hides and skins
- 630499 - Primary animal products not elsewhere classified

Exclusions:

R&D directed towards:

- (a) environmental management aspects of preparing or producing primary livestock products is included in Group 630500 Sustainable Animal Production Systems; and
- (b) manufacture of processed products from primary livestock products is included in either Group 670100 Processed Food Products and Beverages, Group 670200 Fibre Processing and Textiles; Footwear and Leather Products or Group 671600 Other Manufactured Products.

Group 630500 - Sustainable Animal Production Systems

This group covers R&D directed towards developing sustainable animal production systems. It includes research into pastures, water usage and pests if the prime purpose of the research is livestock, pasture crops, fish and primary products from animals which are more environmentally and economically sustainable. This group has four classes:

- 630501 - Livestock
- 630502 - Pasture, browse and fodder crops
- 630503 - Fish
- 630504 - Primary products from animals

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Classification Structure - Subdivision 640000 - Mineral Resources (Excl. Energy)

(See Division 2, Introduction for more information)

Group

Class

Title

640100

Exploration

640101

Iron ores (i.e. ferrous ores)

640102

Aluminium ores

640103

Precious (noble) metal ores

640104

Titanium minerals, zircon, and rare earth metal ores (e.g. monazite)

640105

Other non-ferrous ores (e.g. copper, zinc)

640106

Stone and clay

640199

	Other non-metallic minerals (incl. diamonds)
640200	
	Primary Mining and Extraction Processes
640201	Iron ores (i.e. ferrous ores)
640202	Aluminium ores
640203	Precious (noble) metal ores
640204	Titanium minerals, zircon, and rare earth metal ores (e.g. monazite)
640205	Other non-ferrous ores (e.g. copper, zinc)
640206	Stone and clay
640299	Other non-metallic minerals (incl. diamonds)
640300	
	First Stage Treatment of Ores and Minerals
640301	Beneficiation or dressing of iron ores
640302	Alumina production
640303	Other beneficiation of bauxite and aluminium ores
640304	Concentrating processes of other base metal ores
640305	Production of unrefined precious metal ingots and concentrates
640306	Beneficiation or dressing of non-metallic minerals (incl. diamonds)
640399	Other
640400	
	Prevention and Treatment of Pollution
640401	Exploration
640402	Primary mining and extraction processes
640403	First stage treatment of ores and minerals

Definitions

Subdivision 640000 - Mineral Resources (Excl. Energy), covers R&D which primarily benefits or has application to the exploration, mining, extraction and processing of mineral resources. It includes R&D directed towards 'clean production' to minimise emissions to the environment from the exploration, mining, extraction and processing of mineral resources (excl. energy) or towards protection of the production site. This subdivision has four groups:

640100 - Exploration

640200 - Primary Mining and Extraction Processes

640300 - First Stage Treatment of Ores and Minerals

640400 - Prevention and Treatment of Pollution

Exclusions:

R&D directed towards:

(a) production of energy mineral resources is included in Subdivision 650000 Energy Resources; and

(b) manufacture of processed products from mineral resources (incl. refining and smelting) is included in Subdivision 670000 Manufacturing.

Group 640100 - Exploration

This group covers R&D directed towards exploration for minerals including iron ore, other base metals, bauxite and other non-ferrous metal ores, precious metal ores, diamonds and other precious and semi-precious stones, heavy mineral sands, stone, clay and other mineral and metal ores. This group has seven classes:

640101 - Iron ores (i.e. ferrous ores)

640102 - Aluminium ores

640103 - Precious (noble) metal ores

640104 - Titanium minerals, zircon, and rare earth metal ores (e.g. monazite)

640105 - Other non-ferrous ores (e.g. copper, zinc)

640106 - Stone and clay

640199 - Other non-metallic minerals (incl. diamonds)

Exclusions:

R&D directed towards:

(a) 'clean production' to minimise emissions to the environment from the exploration for mineral resources (excl. energy) or towards protection of the exploration site is included in Group 640400 Prevention and Treatment of Pollution; and

(b) exploration for energy minerals resources is included in Group 650100 Exploration.

Group 640200 - Primary Mining and Extraction Processes

This group covers R&D directed towards mining and extracting iron ore, other base metals, bauxite and other non-ferrous metal ores, precious metal ores, diamonds and other precious and semi-precious stones, heavy mineral sands, stone, clay and other mineral and metal ores. This group has seven classes:

640201 - Iron ores (i.e. ferrous ores)
640202 - Aluminium ores
640203 - Precious (noble) metal ores
640204 - Titanium minerals, zircon, and rare earth metal ores (e.g. monazite)
640205 - Other non-ferrous ores (e.g. copper, zinc)
640206 - Stone and clay
640299 - Other non-metallic minerals (incl. diamonds)

Exclusions:

R&D directed towards:

(a) 'clean production' to minimise emissions to the environment from the mining and extraction of mineral resources (excl. energy) or towards protection of the production site is included in Group 640400 Prevention and Treatment of Pollution; and

(b) mining and extracting energy mineral resources is included in Group 650200 Mining and Extraction.

Group 640300 - First Stage Treatment of Ores and Minerals

This group covers R&D directed towards processing minerals, including beneficiated iron ore, other base metal intermediates, alumina and other non-ferrous metal intermediates, precious metals, heavy mineral sands and other mineral and metal ore intermediate products and processing diamonds and other precious and semi-precious stones prior to the cut gem stage. This group has seven classes:

640301 - Beneficiation or dressing of iron ores
640302 - Alumina production
640303 - Other beneficiation of bauxite and aluminium ores
640304 - Concentrating processes of other base metal ores
640305 - Production of unrefined precious metal ingots and concentrates
640306 - Beneficiation or dressing of non-metallic minerals (incl. diamonds)
640399 - Other

Exclusions:

R&D directed towards:

(a) 'clean production' to minimise emissions to the environment from the processing of mineral resources (excl. energy) or towards protection of the production site is included in Group 640400 Prevention and Treatment of Pollution;

(b) preparation and supply of energy mineral resources is included in Group 650300 Preparation and Supply of Energy Source Minerals; and

(c) manufacture of processed mineral products (incl. refining and smelting) is included in Group 670800 Basic Metal Products (Incl. Smelting).

Group 640400 - Prevention and Treatment of Pollution

This group covers R&D directed towards 'clean production' to minimise emissions to the environment from the exploration, mining, extraction and processing of mineral resources (excl. energy) or towards protection of the production site. This group has three classes:

640401 - Exploration

640402 - Primary mining and extraction processes

640403 - First stage treatment of ores and minerals

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Resources

Classification Structure - Subdivision 650000 - Energy Resources

(See Division 2, Introduction for more information)

Group	Class	Title
650100		Exploration
	650101	Uranium
	650102	Coal
	650103	Oil and gas
	650104	Oil shale and tar sands
	650199	Other
650200		Mining and Extraction
	650201	

		Uranium
	650202	
		Coal
	650203	
		Oil and gas
	650204	
		Oil shale and tar sands
	650299	
		Other
650300		
		Preparation and Supply of Energy Source Minerals
	650301	
		Uranium
	650302	
		Coal
	650303	
		Oil and gas
	650304	
		Oil shale and tar sands
	650399	
		Energy minerals not elsewhere classified
650400		
		Prevention and Treatment of Pollution
	650401	
		Exploration
	650402	
		Mining and extraction
	650403	
		Preparation and supply of energy source minerals
659900		
		Other
	659999	
		Other (e.g. safety)

Definitions

Division 2 - Subdivision 650000 - Energy Resources

This subdivision covers R&D directed towards the exploration, mining, extraction, preparation and supply of energy mineral resources.

It includes R&D directed towards 'clean production' to minimise emissions to the environment from the exploration, mining, extraction, preparation and supply of energy mineral resources or towards protection of the production site. This subdivision has five groups:

650100 - Exploration

650200 - Mining and Extraction

650300 - Preparation and Supply of Energy Source Minerals

650400 - Prevention and Treatment of Pollution

659900 - Other

Exclusions:

R&D directed towards:

(a) exploration, mining, extraction and processing of mineral resources other than used in the production and supply of energy is included in Subdivision 640000 Mineral Resources (Excl. Energy); and

(b) manufacture of processed products from energy resource minerals is included in Subdivision 670000 Manufacturing.

Group 650100 - Exploration

This group covers R&D directed towards exploration for uranium, coal, oil and gas, oil shale and tar sands and other energy minerals used for the energy resource industry.

This group has five classes:

650101 - Uranium

650102 - Coal

650103 - Oil and gas

650104 - Oil shale and tar sands

650199 - Other

Exclusions:

R&D directed towards:

(a) exploration for non-energy mineral resources is included in Group 640100 Exploration; and

(b) 'clean production' to minimise emissions to the environment from the exploration for energy mineral resources or towards protection of the exploration site is included in Group 650400 Prevention and Treatment of Pollution.

Group 650200 - Mining and Extraction

This group covers R&D directed towards mining and extracting uranium, coal, oil and gas, oil shale and tar sands and other energy resource minerals. This group has five classes:

650201 - Uranium

650202 - Coal

650203 - Oil and gas

650204 - Oil shale and tar sands

650299 - Other

Exclusions:

R&D directed towards:

(a) mining and extracting non-energy mineral resources is included in Group 640200 Primary Mining and Extraction Processes; and

(b) 'clean production' to minimise emissions to the environment from the mining and extraction of energy mineral resources or towards protection of the production site is included in Group 650400 Prevention and Treatment of Pollution.

Group 650300 - Preparation and Supply of Energy Source Minerals

This group covers R&D directed towards the preparation and supply of uranium, coal, oil and gas, oil shale and tar sands and other energy source mineral resources. This group has five classes:

650301 - Uranium

650302 - Coal

650303 - Oil and gas

650304 - Oil shale and tar sands

650399 - Energy minerals not elsewhere classified

Exclusions:

R&D directed towards:

(a) processing non-energy mineral resources is included in Group 640300 First Stage Treatment of Ores and Minerals; and

(b) 'clean production' to minimise emissions to the environment from the processing of energy mineral resources or towards protection of the production site is included in Group 650400 Prevention and Treatment of Pollution.

Group 650400 - Prevention and Treatment of Pollution

This group covers R&D directed towards 'clean production' to minimise emissions to the environment from the exploration, mining, extraction, preparation and supply of energy mineral resources or towards protection of the production site. This group has three classes:

650401 - Exploration

650402 - Mining and extraction

650403 - Preparation and supply of energy source minerals

Group 659900 - Other

This group covers R&D directed towards energy resources not elsewhere classified. It has the one Class:

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Classification Structure - Subdivision 660000 - Energy Supply

(See Division 2, Introduction for more information)

Group

Class

Title

660100

Energy Transformation

660101

Coal - electricity

660102

Coal - conversion to liquid fuels

660103

Coal - other purposes

660104

Nuclear

660105

Refined oil and gas

660106

Gas - conversion to liquid fuels

660107

	660199	Oil shale and tar sands - conversion to liquid fuels
		Energy transformation not elsewhere classified
660200		Renewable Energy
	660201	Hydro-electric
	660202	Wind
	660203	Ocean
	660204	Solar-thermal
	660205	Solar-photoelectric
	660206	Solar-thermal electric
	660299	Renewable energy not elsewhere classified (e.g. geothermal)
660300		Energy Storage and Distribution
	660301	Electricity transmission
	660302	Gas distribution
	660303	Energy storage
	660304	Energy systems analysis
	660399	Energy distribution not elsewhere classified
660400		Conservation and Efficiency
	660401	Industry
	660402	Residential and commercial
	660403	Transport
	660499	Other
660500		Prevention and Treatment of Pollution
	660501	Energy transformation

660502	Renewable energy
660503	Energy storage and distribution
660504	Conservation and efficiency
669900	Other
669999	Other

Definitions

Subdivision 660000 - Energy Supply, covers R&D directed towards renewable energy, energy production and supply, energy transformation, energy distribution and the conservation or efficient use of energy in the form of derived fuels such as petroleum products, electricity, town gas, coke and briquettes and in the form of heat energy.

It includes R&D directed towards 'clean production' to minimise emissions to the environment from the supply of energy or towards protection of the production site. This subdivision has six groups:

- 660100 - Energy Transformation
- 660200 - Renewable Energy
- 660300 - Energy Storage and Distribution
- 660400 - Conservation and Efficiency
- 660500 - Prevention and Treatment of Pollution
- 669900 - Other

Exclusions:

R&D directed towards the commercial provision of electricity, gas and water services and utilities is included in Subdivision 710000 Commercial Services and Tourism, Group 710100 Electricity, Gas and Water Services and Utilities.

Group 660100 - Energy Transformation

This group covers R&D directed towards the transformation of energy resource minerals such as coal, uranium, oil and gas into heat, steam or electricity; and the conversion of coal, natural gas, oil shale and tar sands to liquid fuels. This group has eight classes:

- 660101 - Coal - electricity
- 660102 - Coal - conversion to liquid fuels
- 660103 - Coal - other purposes
- 660104 - Nuclear
- 660105 - Refined oil and gas
- 660106 - Gas - conversion to liquid fuels

660107 - Oil shale and tar sands - conversion to liquid fuels

660199 - Energy transformation not elsewhere classified

Exclusions:

R&D directed towards 'clean production' to minimise emissions to the environment from energy transformation or towards protection of the production site is included in Group 660500 Prevention and Treatment of Pollution.

Group 660200 - Renewable Energy

This group covers R&D directed towards improving the generation and supply of renewable energy including hydro-electric energy, wind, ocean, geothermal, solar-thermal, solar-photoelectric, solar-thermal electric biomass and other forms of renewable energy. This group has seven classes:

660201 - Hydro-electric

660202 - Wind

660203 - Ocean

660204 - Solar-thermal

660205 - Solar-photoelectric

660206 - Solar-thermal electric

660299 - Renewable energy not elsewhere classified (e.g. geothermal)

Exclusions:

R&D directed towards protection of the production site is included in Group 660500 Prevention and Treatment of Pollution.

Group 660300 - Energy Storage and Distribution

This group covers R&D directed towards improving energy distribution including electricity transmission, gas distribution and other forms of energy distribution (incl. distribution of manufactured gas through systems of mains).

This group includes R&D directed towards energy storage and energy systems analysis. This group has five classes:

660301 - Electricity transmission

660302 - Gas distribution

660303 - Energy storage

660304 - Energy systems analysis

660399 - Energy distribution not elsewhere classified

Exclusions:

R&D directed towards:

(a) 'clean production' to minimise emissions to the environment from energy storage and distribution or towards protection of the production site is included in Group 660500

Prevention and Treatment of Pollution; and

(b) the provision and management of services, such as electricity, gas and water services and utilities to commercial and residential premises is included in Group 710100 Electricity, Gas and Water Services and Utilities.

Group 660400 - Conservation and Efficiency

This group covers R&D directed towards the conservation and efficient use of energy in industry, transport, commerce and households. This group has four classes:

660401 - Industry

660402 - Residential and commercial

660403 - Transport

660499 - Other

Group 660500 - Prevention and Treatment of Pollution

This group covers R&D directed towards 'clean production' to minimise emissions to the environment from the supply of energy or towards protection of the production site.

This group has four classes:

660501 - Energy transformation

660502 - Renewable energy

660503 - Energy storage and distribution

660504 - Conservation and efficiency

Group 669900 - Other

This group covers R&D in energy supply which is not classified elsewhere (e.g. safety). This group has the one Class:

669999 - Other

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Classification Structure - Subdivision 670000 - Manufacturing

(See Division 2, Introduction for more information)

Group	Class	Title
670100		Processed Food Products and Beverages
	670101	Carcass meat
	670102	Meat products
	670103	Fish products
	670104	Fruit and vegetable products (incl. fruit juices)
	670105	Dairy products
	670106	Oils and fats (incl. margarines)
	670107	

	Grain mill products, starch and starch products (incl. sugar, bakery products)
670108	
	Beverages (e.g. alcohol, wines, soft drinks, excl. fruit juices)
670199	
	Processed food products and beverages not elsewhere classified
670200	
	Fibre Processing and Textiles; Footwear and Leather Products
670201	
	Cotton ginning
670202	
	Wool scouring and top making
670203	
	Natural yarns and fabrics
670204	
	Synthetic fibres, yarns and fabrics
670205	
	Other fibre processing and textiles
670206	
	Processed skins, leather and leather products not elsewhere classified
670207	
	Clothing
670208	
	Footwear
670299	
	Other
670300	
	Wood, Wood Products and Paper
670301	
	Hardwood sawing and veneer
670302	
	Softwood sawing and veneer
670303	
	Pulp and paper
670304	
	Reconstituted products (e.g. chipboard, particle board)
670305	
	Woodchips
670306	
	Wood products not elsewhere classified
670307	
	Paper products
670308	
	Printing and publishing processes
670399	
	Other

670400**Human Pharmaceutical Products**

- 670401 Prevention - biologicals (e.g. vaccines)
- 670402 Diagnostics
- 670403 Treatments (e.g. chemicals, antibiotics)
- 670499 Other

670500**Veterinary Pharmaceutical Products**

- 670501 Prevention - biologicals (e.g. vaccines)
- 670502 Diagnostics
- 670503 Treatments (e.g. chemicals, antibiotics)
- 670599 Other (incl. production enhancement)

670600**Agricultural Chemicals**

- 670601 Chemical fertilisers
- 670602 Crop and animal protection chemicals
- 670699 Agricultural chemicals not elsewhere classified

670700**Industrial Chemicals and Related Products**

- 670701 Industrial gases
- 670702 Synthetic resins and rubber
- 670703 Rubber products
- 670704 Plastics in primary forms
- 670705 Plastic products (incl. construction materials)
- 670706 Organic industrial chemicals not elsewhere classified
- 670707 Inorganic industrial chemicals
- 670708

		Paints
	670709	
		Soaps and cosmetics
	670710	
		Bituminous products
	670711	
		Lubricants
	670799	
		Other
670800		
		Basic Metal Products (Incl. Smelting)
	670801	
		Iron and steel (e.g. ingots, bars, rods, shapes and sections)
	670802	
		Aluminium
	670803	
		Precious metals (e.g. refined bullion, wire and strip)
	670899	
		Other non-ferrous metals (e.g. copper, zinc)
670900		
		Ceramics, Glass and Industrial Mineral Products
	670901s	
		Ceramic
	670902	
		Structural glass and glass products
	670903	
		Clay products
	670904	
		Cement and concrete products
	670999	
		Ceramics, glass and industrial mineral products not elsewhere classified
671000		
		Fabricated Metal Products
	671001	
		Structural metal products
	671002	
		Sheet metal products
	671003	
		Semi-finished products
	671004	
		Castings
	671005	
		Machined products
	671099	
		Fabricated metal products not elsewhere classified

671100**Transport Equipment**

671101	Automotive equipment
671102	Rail equipment
671103	Nautical equipment
671104	Aerospace equipment
671199	Transport equipment not elsewhere classified

671200**Computer Hardware and Electronic Equipment**

671201	Integrated circuits and devices
671202	Modules - special and attached processors
671203	Modules - other processes
671204	Electronic office equipment
671205	Computer equipment
671206	Integrated systems
671299	Computer hardware and electronic equipment not elsewhere classified

671300**Communication Equipment**

671301	Broadcasting equipment
671302	Postal equipment
671303	Voice equipment
671304	Data, image and text equipment
671305	Network transmission equipment
671306	Network switching equipment
671399	Communication equipment not elsewhere classified

671400**Instrumentation**

671401	Scientific instrumentation
671402	Medical instrumentation
671403	Industrial instrumentation
671404	Photographic equipment
671499	Instrumentation not elsewhere classified

671500**Machinery and Equipment**

671501	Agricultural machinery and equipment
671502	Mining machinery and equipment
671503	Appliances and electrical machinery and equipment
671504	Industrial machinery and equipment
671505	Construction machinery and equipment
671599	Machinery and equipment not elsewhere classified

671600**Other Manufactured Products**

671601	Tobacco products
671602	Furniture
671603	Prefabricated buildings
671699	Manufactured products not elsewhere classified

671700**Prevention and Treatment of Pollution**

671701	Processed food products and beverages
671702	Fibre processing and textiles; footwear and leather products
671703	Wood, wood products and paper
671704	

	Human pharmaceutical products
671705	
	Veterinary pharmaceutical products
671706	
	Agricultural chemicals
671707	
	Industrial chemicals and related products
671708	
	Basic metal products (incl. smelting)
671709	
	Ceramics, glass and industrial mineral products
671710	
	Fabricated metal products
671711	
	Transport equipment
671712	
	Computer hardware and electronic equipment
671713	
	Communication equipment
671714	
	Instrumentation
671715	
	Machinery and equipment
671716	
	Other manufactured products

Definitions

Subdivision 670000 - Manufacturing, covers R&D directed towards refining and developing processes or strategies for transforming processed or unprocessed materials or components into new products.

This subdivision includes R&D directed towards the manufacture of safe products. It also includes R&D directed towards 'clean production' to minimise emissions to the environment from manufacturing processes or towards protection of the production site. This subdivision has seventeen groups:

- 670100 - Processed Food Products and Beverages
- 670200 - Fibre Processing and Textiles; Footwear and Leather Products
- 670300 - Wood, Wood Products and Paper
- 670400 - Human Pharmaceutical Products
- 670500 - Veterinary Pharmaceutical Products
- 670600 - Agricultural Chemicals
- 670700 - Industrial Chemicals and Related Products
- 670800 - Basic Metal Products (Incl. Smelting)
- 670900 - Ceramics, Glass and Industrial Mineral Products

671000 - Fabricated Metal Products
671100 - Transport Equipment
671200 - Computer Hardware and Electronic Equipment
671300 - Communication Equipment
671400 - Instrumentation
671500 - Machinery and Equipment
671600 - Other Manufactured Products
671700 - Prevention and Treatment of Pollution

Exclusions:

R&D directed towards:

(a) testing the performance, durability and life cycle of manufactured building materials delivered on construction sites is included in Subdivision 680000 Construction; and

(b) environmental health factors in manufacturing is included in Subdivision 730000 Health, Group 730200 Public Health.

Group 670100 - Processed Food Products and Beverages

This group covers R&D directed towards the manufacture of processed plant and animal food products, such as meat, fruit, vegetable and dairy products, fish, oils and fats, grain, bakery and grain mill products, sugar, alcoholic beverages and soft drinks. This group has nine classes:

670101 - Carcass meat
670102 - Meat products
670103 - Fish products
670104 - Fruit and vegetable products (incl. fruit juices)
670105 - Dairy products
670106 - Oils and fats (incl. margarines)
670107 - Grain mill products, starch and starch products (incl. sugar, bakery products)
670108 - Beverages (e.g. alcohol, wines, soft drinks, excl. fruit juices)
670199 - Processed food products and beverages not elsewhere classified

Exclusions:

R&D directed towards 'clean production' to minimise emissions to the environment from manufacturing processes or towards protection of the production site is included in Group 671700 Prevention and Treatment of Pollution.

Group 670200 - Fibre Processing and Textiles; Footwear and Leather Products

This group covers R&D directed towards processing natural or synthetic fibres and the manufacture of fabrics, clothing, ropes and twines, floor coverings and other made-up textile products.

This group includes R&D directed towards leather tanning and fur dressing, the manufacture of footwear, processed skins, leather and leather products not classified

elsewhere. This group has nine classes:

- 670201 - Cotton ginning
- 670202 - Wool scouring and top making
- 670203 - Natural yarns and fabrics
- 670204 - Synthetic fibres, yarns and fabrics
- 670205 - Other fibre processing and textiles
- 670206 - Processed skins, leather and leather products not elsewhere classified
- 670207 - Clothing
- 670208 - Footwear
- 670299 - Other

Exclusions:

R&D directed towards 'clean production' to minimise emissions to the environment from manufacturing processes or towards protection of the production site is included in Group 671700 Prevention and Treatment of Pollution.

Group 670300 - Wood, Wood Products and Paper

This group covers R&D directed towards processing hardwood and softwood, log sawmilling, wood chipping, timber dressing and the manufacture of wood products such as wooden structural fittings, plywood and veneer and particle boards of wood.

This group includes R&D directed towards the manufacture of pulp, paper and paper products and towards printing and publishing (except printing and publishing newspapers). This group has nine classes:

- 670301 - Hardwood sawing and veneer
- 670302 - Softwood sawing and veneer
- 670303 - Pulp and paper
- 670304 - Reconstituted products (e.g. chipboard, particle board)
- 670305 - Woodchips
- 670306 - Wood products not elsewhere classified
- 670307 - Paper products
- 670308 - Printing and publishing processes
- 670399 - Other

Exclusions:

R&D directed towards the:

(a) harvest and transportation of logs and forest products is included in Group 620300 Forestry;

(b) prefabrication of wooden buildings and the manufacture of wooden furniture is included in Group 671600 Other Manufactured Products;

(c) 'clean production' to minimise emissions to the environment from manufacturing processes or towards protection of the production site is included in Group 671700 Prevention and Treatment of Pollution; and

(d) printing and publishing of newspapers is included in Group 700300 Communication Services.

Group 670400 - Human Pharmaceutical Products

This group covers R&D directed towards the manufacture of pharmaceutical products for use in the prevention, diagnosis and treatment of human diseases. This group has four classes:

670401 - Prevention - biologicals (e.g. vaccines)

670402 - Diagnostics

670403 - Treatments (e.g. chemicals, antibiotics)

670499 - Other

Exclusions:

R&D directed towards 'clean production' to minimise emissions to the environment from manufacturing processes or towards protection of the production site is included in Group 671700 Prevention and Treatment of Pollution.

Group 670500 - Veterinary Pharmaceutical Products

This group covers R&D directed towards the manufacture of pharmaceutical products for use in the prevention, diagnosis and treatment of veterinary diseases. This group has four classes:

670501 - Prevention - biologicals (e.g. vaccines)

670502 - Diagnostics

670503 - Treatments (e.g. chemicals, antibiotics)

670599 - Other (incl. production enhancement)

Exclusions:

R&D directed towards:

(a) the manufacture of insecticides for sheep or cattle is included in Group 670600 Agricultural Chemicals; and

(b) 'clean production' to minimise emissions to the environment from manufacturing processes or towards protection of the production site is included in Group 671700 Prevention and Treatment of Pollution.

Group 670600 - Agricultural Chemicals

This group covers R&D directed towards the manufacture of chemical fertilisers, pesticides, insecticides, weedicides and fungicides. This group has three classes:

670601 - Chemical fertilisers
670602 - Crop and animal protection chemicals
670699 - Agricultural chemicals not elsewhere classified

Exclusions:

R&D directed towards 'clean production' to minimise emissions to the environment from manufacturing processes or towards protection of the production site is included in Group 671700 Prevention and Treatment of Pollution.

Group 670700 - Industrial Chemicals and Related Products

This group covers R&D directed towards the manufacture of industrial gases, synthetic resins and synthetic rubber, rubber and plastic products, organic and inorganic industrial chemicals, inks, paints, explosive, soaps and other detergents, cosmetics and other toiletry products.

It includes R&D directed towards petroleum refining, manufacture of bituminous products and lubricants. This group has twelve classes:

670701 - Industrial gases
670702 - Synthetic resins and rubber
670703 - Rubber products
670704 - Plastics in primary forms
670705 - Plastic products (incl. construction materials)
670706 - Organic industrial chemicals not elsewhere classified
670707 - Inorganic industrial chemicals
670708 - Paints
670709 - Soaps and cosmetics
670710 - Bituminous products
670711 - Lubricants
670799 - Other

Exclusions:

R&D directed towards the manufacture of:

(a) human pharmaceutical products is included in Group 670400 Human Pharmaceutical Products;

(b) veterinary pharmaceutical products is included in Group 670500 Veterinary Pharmaceutical Products;

(c) agricultural chemicals is included in Group 670600 Agricultural Chemicals; and

(d) 'clean production' to minimise emissions to the environment from manufacturing processes or towards protection of the production site is included in Group 671700 Prevention and Treatment of Pollution.

Group 670800 - Basic Metal Products (Incl. Smelting)

This group covers R&D directed towards the manufacture of ferrous and non-ferrous basic metal products, copper, lead, silver, zinc and other base metals, aluminium and precious metals. It includes R&D directed towards smelting. This group has four classes:

670801 - Iron and steel (e.g. ingots, bars, rods, shapes, sections)

670802 - Aluminium

670803 - Precious metals (e.g. refined bullion, wire and strip)

670899 - Other non-ferrous metals (e.g. copper, zinc)

Exclusions:

R&D directed towards:

(a) alumina production and beneficiation of aluminium ores is included in Group 640300 First Stage Treatment of Ores and Minerals; and

(b) 'clean production' to minimise emissions to the environment from manufacturing processes or towards protection of the production site is included in Group 671700 Prevention and Treatment of Pollution.

Group 670900 - Ceramics, Glass and Industrial Mineral Products

This group covers R&D directed towards the manufacture of ceramics, glass and glass products and industrial mineral products, including clay, cement and concrete products.

It includes R&D directed towards the manufacture of plaster and non-metallic mineral products. This group has five classes:

670901 - Ceramics

670902 - Structural glass and glass products

670903 - Clay products

670904 - Cement and concrete products

670999 - Ceramics, glass and industrial mineral products not elsewhere classified

Exclusions:

R&D directed towards:

(a) 'clean production' to minimise emissions to the environment from manufacturing processes or towards protection of the production site is included in Group 671700 Prevention and Treatment of Pollution; and

(b) testing the performance and durability of building materials is included in Group 680300 Materials Performance and Processes.

Group 671000 - Fabricated Metal Products

This group covers R&D directed towards the manufacture of structural and sheet metal products, castings, machined and semi-finished fabricated metal products. Examples of these products are structural steel, architectural aluminium and metal products, metal containers, sheet metal products including hand tools, general hardware, springs, nuts, rivets and non-ferrous pipe fittings. This group has six classes:

671001 - Structural metal products
671002 - Sheet metal products
671003 - Semi-finished products
671004 - Castings
671005 - Machined products
671099 - Fabricated metal products not elsewhere classified

Exclusions:

R&D directed towards:

(a) the prefabrication of metal buildings and manufacture of sheet metal furniture is included in Group 671600 Other Manufactured Products; and

(b) 'clean production' to minimise emissions to the environment from manufacturing processes or towards protection of the production site is included in Group 671700 Prevention and Treatment of Pollution.

Group 671100 - Transport Equipment

This group covers R&D directed towards the manufacture of motor vehicles, railway rolling stock, aeroplanes, ships, boats and other transport equipment not elsewhere classified.

It includes R&D directed towards the manufacture of components and repair of transport equipment included in this classification. This group has five classes:

671101 - Automotive equipment
671102 - Rail equipment
671103 - Nautical equipment
671104 - Aerospace equipment
671199 - Transport equipment not elsewhere classified

Exclusions:

R&D directed towards 'clean production' to minimise emissions to the environment from manufacturing processes or towards protection of the production site is included in Group 671700 Prevention and Treatment of Pollution.

Group 671200 - Computer Hardware and Electronic Equipment

This group covers R&D directed towards the manufacture of computer hardware and electronic equipment used for offices, computing and integrated systems and computer peripherals.

It includes R&D directed towards the manufacture of business machines such as photocopiers, typewriters or calculators. This group has seven classes:

671201 - Integrated circuits and devices
671202 - Modules - special and attached processors
671203 - Modules - other processes
671204 - Electronic office equipment
671205 - Computer equipment
671206 - Integrated systems
671299 - Computer hardware and electronic equipment not elsewhere classified

Exclusions:

R&D directed towards:

(a) 'clean production' to minimise emissions to the environment from manufacturing processes or towards protection of the production site is included in Group 671700 Prevention and Treatment of Pollution; and

(b) developing computer software and the provision of programming services is included in Group 700100 Computer Software and Services.

Group 671300 - Communication Equipment

This group covers R&D directed towards the manufacture of communication equipment, including that used for broadcasting, electronic data, voice or image transmission, network transmission and switching equipment. This group has seven classes:

671301 - Broadcasting equipment
671302 - Postal equipment
671303 - Voice equipment
671304 - Data, image and text equipment
671305 - Network transmission equipment
671306 - Network switching equipment
671399 - Communication equipment not elsewhere classified

Exclusions:

R&D directed towards 'clean production' to minimise emissions to the environment from manufacturing processes or towards protection of the production site is included in Group 671700 Prevention and Treatment of Pollution.

Group 671400 - Instrumentation

This group covers R&D directed towards the manufacture of scientific, medical and industrial instrumentation, photographic equipment and other instrumentation. This group has five classes:

671401 - Scientific instrumentation
671402 - Medical instrumentation
671403 - Industrial instrumentation

671404 - Photographic equipment
671499 - Instrumentation not elsewhere classified

Exclusions:

R&D directed towards 'clean production' to minimise emissions to the environment from manufacturing processes or towards protection of the production site is included in Group 671700 Prevention and Treatment of Pollution.

Group 671500 - Machinery and Equipment

This group covers R&D directed towards the manufacture of machinery and equipment and towards the manufacture of household appliances and other electrical equipment not classified elsewhere. This group has six classes:

671501 - Agricultural machinery and equipment
671502 - Mining machinery and equipment
671503 - Appliances and electrical machinery and equipment
671504 - Industrial machinery and equipment
671505 - Construction machinery and equipment
671599 - Machinery and equipment not elsewhere classified

Exclusions:

R&D directed towards 'clean production' to minimise emissions to the environment from manufacturing processes or towards protection of the production site is included in Group 671700 Prevention and Treatment of Pollution.

Group 671600 - Other Manufactured Products

This group covers R&D directed towards the manufacture of tobacco products, furniture, prefabricated buildings and other products not classified elsewhere. This group has four classes:

671601 - Tobacco products
671602 - Furniture
671603 - Prefabricated buildings
671699 - Manufactured products not elsewhere classified

Exclusions:

R&D directed towards 'clean production' to minimise emissions to the environment from manufacturing processes or towards protection of the production site is included in Group 671700 Prevention and Treatment of Pollution.

Group 671700 - Prevention and Treatment of Pollution

This group covers R&D directed towards 'clean production' to minimise emissions to the environment from manufacturing processes or towards protection of the production site. This group has sixteen classes:

671701 - Processed food products and beverages
671702 - Fibre processing and textiles; footwear and leather products
671703 - Wood, wood products and paper
671704 - Human pharmaceutical products
671705 - Veterinary pharmaceutical products
671706 - Agricultural chemicals
671707 - Industrial chemicals and related products
671708 - Basic metal products (incl. smelting)
671709 - Ceramics, glass and industrial mineral products
671710 - Fabricated metal products
671711 - Transport equipment
671712 - Computer hardware and electronic equipment
671713 - Communication equipment
671714 - Instrumentation
671715 - Machinery and equipment
671716 - Other manufactured products

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Classification Structure - Subdivision 680000 - Construction

(See Division 2, Introduction for more information)

Group	Class	Title
680100		Planning
	680101	Housing
	680102	Commercial
	680103	Civil
	680104	Industria
	680199	Other
680200		Design
	680201	Housing

	680202	
		Commercial
	680203	
		Civil
	680204	
		Industrial
	680299	
		Other
680300		
		Materials Performance and Processes
	680301	
		Stone, ceramics and clay materials
	680302	
		Cement and concrete materials
	680303	
		Polymeric materials (e.g. paints)
	680304	
		Timber materials
	680305	
		Metals (composites, coatings, bonding, etc.)
	680399	
		Other
680400		
		Construction Processes
	680401	
		Housing
	680402	
		Commercial
	680403	
		Civil
	680404	
		Industrial
	680499	
		Other
680500		
		Building Management and Services
	680501	
		Housing
	680502	
		Commercial
	680503	
		Civil
	680504	
		Industrial
	680599	

680600	Other
	Prevention and Treatment of Pollution
680601	Planning
680602	Design
680603	Materials performance and processes
680604	Construction processes
680605	Building management and services

Definitions

Subdivision 680000 - Construction, covers R&D directed towards construction. It includes R&D directed towards improving the use and performance of building materials, the processes for which they are used and the functions of engineering, planning, design, management and building services in the construction industry.

This subdivision includes R&D directed towards testing on construction sites the performance, durability and life cycle of materials used in the construction industry; the planning component of the construction up to the stage of developing sketch plans; design component, specifically turning sketch plans into working drawings and specifications; the development and supply of components and materials which are assembled and placed on site to form buildings, but manufactured off-site; and the design, supply and installation of building services.

It includes R&D directed towards 'clean production' to minimise emissions to the environment from construction or towards protection of the production site.

R&D directed towards safety in construction projects is also included in this subdivision. This subdivision has six groups:

- 680100 - Planning
- 680200 - Design
- 680300 - Materials Performance and Processes
- 680400 - Construction Processes
- 680500 - Building Management and Services
- 680600 - Prevention and Treatment of Pollution

Exclusions:

R&D directed towards the:

- (a) manufacture of materials used in construction is included in the appropriate groups in Subdivision 670000 Manufacturing; and

(b) environmental health considerations in construction is included in Subdivision 730000 Health, Group 730200 Public Health.

Group 680100 - Planning

This group covers R&D directed towards improving the activities associated with the development of construction projects to the sketch plan stage, including urban planning, environmental impact studies, investigation of alternatives, market surveys, information gathering and assessment, geotechnical considerations, conceptual architectural design and project funding. This group has five classes:

680101 - Housing

680102 - Commercial

680103 - Civil

680104 - Industrial

680199 - Other

Group 680200 - Design

This group covers R&D directed towards improving the associated activities which turn a project sketch plan into detailed architectural and engineering designs and specifications and towards the development of building regulations and design codes.

R&D directed towards quantity surveying is also included in this group. This group has five classes:

680201 - Housing

680202 - Commercial

680203 - Civil

680204 - Industrial

680299 - Other

Group 680300 - Materials Performance and Processes

This group covers R&D directed towards testing the performance, durability and life cycle of components and materials which are delivered or assembled on construction sites. The testing of performance, durability or life cycle of building materials on existing buildings is also included in this group. Examples of building materials on which testing is carried out are steel elements and assemblies, concrete, reinforcing bars, precast concrete elements, bricks, blocks, plasterboard, roof tiles, timber and plastic and aluminium components, such as windows, frames and piping. This group has six classes:

680301 - Stone, ceramics and clay materials

680302 - Cement and concrete materials

680303 - Polymeric materials (e.g. paints)

680304 - Timber materials

680305 - Metals (composites, coatings, bonding, etc.)

680399 - Other

Group 680400 - Construction Processes

This group covers R&D directed towards improving the associated processes or activities which translate plans and specifications into a finished building.

This group includes R&D directed towards the tendering process, contractual matters, construction management, quality assurance, the actual construction and towards the health and safety aspects in construction. This group has five classes:

680401 - Housing

680402 - Commercial

680403 - Civil

680404 - Industrial

680499 - Other

Exclusions:

R&D directed towards 'clean production' to minimise emissions to the environment from construction processes or towards protection of the production site is included in Group 680600 Prevention and Treatment of Pollution.

Group 680500 - Building Management and Services

This group covers R&D directed towards the design and installation of building services such as lifts, air-conditioning, plumbing, electrical services, communication networks, security and fire alarm systems. R&D directed towards the maintenance or servicing of these services is also included in this group.

This group includes R&D directed towards site demolition, building refurbishment and other construction trade services (e.g. concreting, tiling) not elsewhere classified. This group has five classes:

680501 - Housing

680502 - Commercial

680503 - Civil

680504 - Industrial

680599 - Other

Group 680600 - Prevention and Treatment of Pollution

This group covers R&D directed towards 'clean production' to minimise emissions to the environment from construction or towards protection of the production site. This group has five classes:

680601 - Planning

680602 - Design

680603 - Materials performance and processes

680604 - Construction processes

680605 - Building management and services

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Classification Structure - Subdivision 690000 - Transport

(See Division 2, Introduction for more information)

Group	Class	Title
690100		Ground Transport
	690101	Road safety
	690102	Other road transport
	690103	Rail transport
	690199	Ground transport not elsewhere classified
690200		Water Transport
	690201	International sea transport
	690202	Coastal water transport

	690203	Inland water transport
690300		Air Transport
	690301	Air transport
	690302	Space transport
690400		Other Transport
	690401	Multimodal transport
	690402	Intermodal materials handling
	690499	Transport not elsewhere classified
690500		Prevention and Treatment of Pollution
	690501	Ground transport
	690502	Water transport
	690503	Air transport
	690504	Other transport

Definitions

Subdivision 690000 - Transport, covers R&D directed towards improving the efficiency and safety of transport systems for moving freight, passengers or livestock by ground, water, air or any combinations of these (e.g. sea-air transport) or by any other means.

This subdivision includes R&D directed towards oceanic currents and processes that impinge on sea safety or navigation. It includes R&D directed towards minimising emissions to the environment from transport. This subdivision has five groups:

- 690100 - Ground Transport
- 690200 - Water Transport
- 690300 - Air Transport
- 690400 - Other Transport
- 690500 - Prevention and Treatment of Pollution

Exclusions:

R&D directed towards:

(a) the transportation of plants and primary plant products, livestock and primary livestock products is included in Subdivision 620000 Plant Production and Plant Primary Products and Subdivision 630000 Animal Production and Animal Primary Products respectively; and

(b) transport systems as an integral part of urban planning is included in Subdivision 680000 Construction.

Group 690100 - Ground Transport

This group covers R&D directed towards road passenger or freight transport, long or short distance bus transport (incl. tramway), railway transport, taxi and other road transport.

This group includes R&D directed towards services to ground transport such as parking services, toll bridge, weighbridge, container terminals and punt operations and towards improving road safety. This group has four classes:

690101 - Road safety

690102 - Other road transport

690103 - Rail transport

690199 - Ground transport not elsewhere classified

Exclusions:

R&D directed towards minimising emissions to the environment from ground transport is included in Group 690500 Prevention and Treatment of Pollution.

Group 690200 - Water Transport

This group covers R&D directed towards international, coastal or inland water transport.

This group includes R&D directed towards services to water transport such as stevedoring, water terminals, ports and other services to water transport and towards oceanic currents and processes in so far as they impinge on sea safety or navigation. This group has three classes:

690201 - International sea transport

690202 - Coastal water transport

690203 - Inland water transport

Exclusions:

R&D directed towards minimising emissions to the environment from water transport is included in Group 690500 Prevention and Treatment of Pollution.

Group 690300 - Air Transport

This group covers R&D directed towards international and domestic air transport for passenger, freight and livestock. It includes R&D directed towards other non-scheduled air and space transport. This group has two classes:

690301 - Air transport
690302 - Space transport

Exclusions:

R&D directed towards minimising emissions to the environment from air transport is included in Group 690500 Prevention and Treatment of Pollution.

Group 690400 - Other Transport

This group covers R&D directed towards multi-modal transport and intermodal materials handling.

R&D directed towards pipeline transport and other transport not elsewhere classified is also included in this group. This group has three classes:

690401 - Multimodal transport
690402 - Intermodal materials handling
690499 - Transport not elsewhere classified

Exclusions:

R&D directed towards minimising emissions to the environment from other transport is included in Group 690500 Prevention and Treatment of Pollution.

Group 690500 - Prevention and Treatment of Pollution

This group covers R&D directed towards minimising emissions to the environment from transport. This group has four classes:

690501 - Ground transport
690502 - Water transport
690503 - Air transport
690504 - Other transport

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Classification Structure - Subdivision 700000 - Information and Communication Services

(See Division 2, Introduction for more information)

Group	Class	Title
700100		Computer Software and Services
	700101	Application packages
	700102	Application tools and system utilities
	700103	Information processing services
	700199	Computer software and services not elsewhere classified
700200		Other Information Services
	700201	Library and related information services
	700299	

	Information services not elsewhere classified
700300	
	Communication Services
700301	Broadcasting
700302	Telecommunications
700303	Postal communications
700399	Communication services not elsewhere classified
700400	
	Prevention and Treatment of Pollution
700401	Prevention and treatment of pollution

Definitions

Subdivision 700000 - Information and Communication Services covers R&D directed towards the support and provision of information and communication services (incl. telecommunication services), computer programming or software services, library and library database services, presentations of educational displays for museums, art galleries or other such institutions.

This subdivision includes R&D directed towards printing and publishing newspapers and the provision, processing, presentation or dissemination of information not classified elsewhere.

It includes R&D directed towards the prevention and treatment of pollution by information and communication services. This subdivision has four groups:

700100 - Computer Software and Services
700200 - Other Information Services
700300 - Communication Services
700400 - Prevention and Treatment of Pollution

Exclusions:

R&D directed towards the:

(a) development or manufacture of computer hardware or electronic equipment (incl. assembly of components) is included in Subdivision 670000 Manufacturing, Group 671200 Computer Hardware and Electronic Equipment; and

(b) development or manufacture of communication equipment (incl. assembly of components) is included in Subdivision 670000 Manufacturing, Group 671300 Communication Equipment.

Group 700100 - Computer Software and Services

This group covers R&D directed towards the provision of computer programming or software services which has general purpose application.

This group includes R&D directed towards programming or development of computer software, including application packages, application tools, systems utilities or information processing services. This group has four classes:

700101 - Application packages

700102 - Application tools and system utilities

700103 - Information processing services

700199 - Computer software and services not elsewhere classified

Exclusions:

R&D directed towards computer programming or software services which is specific to other socio-economic objectives is included in other appropriate groups, e.g. television programming is included in Group 700300 Communication Services.

Group 700200 - Other Information Services

This group covers R&D directed towards the provision of other information services not elsewhere classified.

It includes R&D directed towards libraries, library data bases and information processing and the presentation of information (incl. displays) in libraries, museums and art galleries, educational centres and similar facilities and other information services not elsewhere classified. This group has two classes:

700201 - Library and related information services

700299 - Information services not elsewhere classified

Exclusions:

R&D directed towards news or media related information services is included in Group 700300 Communication Services.

Group 700300 - Communication Services

This group covers R&D directed towards telecommunications, postal and courier services, television and radio broadcasting, media services, newspaper publishing and other news dissemination. This group has four classes:

700301 - Broadcasting

700302 - Telecommunications

700303 - Postal communications

700399 - Communication services not elsewhere classified

Exclusions:

R&D directed towards printing or publishing books and other periodicals (except newspapers) is included in Group 670300 Wood, Wood Products and Paper.

Group 700400 - Prevention and Treatment of Pollution

This group covers R&D directed towards the prevention and treatment of pollution by information and communication services.

This group has the one Class:

700401 - Prevention and treatment of pollution

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Classification Structure - Subdivision 710000 - Commercial Services and Tourism

(See Division 2, Introduction for more information)

Group	Class	Title
710100		Electricity, Gas and Water Services and Utilities
	710101	Electricity services and utilities
	710102	Gas services and utilities
	710103	Water services and utilities
710200		Waste Management and Recycling
	710201	Waste management
	710202	Recycling
	710299	

		Othe
710300		
		Wholesale and Retail Trade
	710301	Wholesale
	710302	Retail trade
710400		
		Finance, Property and Business Services
	710401	Finance and investment services
	710402	Insurance services
	710403	Property and business services
710500		
		Tourism
	710501	Economic issues
	710502	Socio-cultural issues
	710503	Tourism infrastructure development
	710599	Tourism not elsewhere classified
710600		
		Other Commercial Services
	710601	Recreational services
	710602	Hospitality services
	710603	Commercial security services
	710699	Commercial services not elsewhere classified
710700		
		Prevention and Treatment of Pollution
	710701	Electricity, gas and water services and utilities
	710702	Waste management and recycling
	710703	Wholesale and retail trade
	710704	Finance, property and business services

710705	Tourism
710706	Other commercial services

Definitions

Subdivision 710000 - Commercial Services and Tourism, covers R&D directed towards the provision of commercial services to all areas of economic and social development.

This subdivision includes R&D directed towards the provision of electricity and gas services to consumers, provision of water, sewerage and drainage services; management and recycling of wastes or waste products as a discrete process or as a service to consumers; wholesale and retail trade services, finance, property and business services; tourism; recreational and personal services and other commercial services not elsewhere classified.

It includes R&D directed towards 'clean production' to minimise emissions to the environment from commercial services or tourism or towards protection of the production site. This subdivision has seven groups:

- 710100 - Electricity, Gas and Water Services and Utilities
- 710200 - Waste Management and Recycling
- 710300 - Wholesale and Retail Trade
- 710400 - Finance, Property and Business Services
- 710500 - Tourism
- 710600 - Other Commercial Services
- 710700 - Prevention and Treatment of Pollution

Exclusions:

R&D directed towards the:

(a) transformation of energy into electricity and gas and conservation or efficient use of energy is included in Subdivision 660000 Energy Supply; and

(b) management or recycling of industrial wastes as an integral process within an industry to prevent impacts of economic development on the environment is included in the appropriate groups within the Defence, Economic Development and Society Divisions.

Group 710100 - Electricity, Gas and Water Services and Utilities

This group covers R&D directed towards the provision of electricity, gas and water services and utilities to industrial and commercial premises and households.

This group includes R&D directed towards the following:

provision of electricity supply to users as consumers (incl. provision of customer and advisory services);

- repair and maintenance of electricity transmission and power facilities;
- provision of gas supply to users as consumers (incl. provision of customer and advisory services);
- repair and maintenance of gas mains;
- provision of gas supplies to consumers in bottle or bulk (wholesale or retail);
- provision of water services and utilities, stormwater drainage and sewerage treatment concerned with water supply;
- storage, purification or distribution of water;
- repair and maintenance of water related facilities services; and
- operation of irrigation systems.

This group has three classes:

710101 - Electricity services and utilities

710102 - Gas services and utilities

710103 - Water services and utilities

Exclusions:

R&D directed towards the:

(a) manufacture of gases is included in Group 660100 Energy Transformation;

(b) transmission of electricity and distribution of manufactured gas i.e. transportation through a system of mains, including pipelines operated on own account is included in Group 660300 Energy Storage and Distribution;

(c) construction of new electricity transmission or power facilities, new gas pipelines, dams, water mains and pumping stations is included in Group 680400 Construction Processes; and

(d) 'clean production' to minimise emissions to the environment from electricity, gas and water services and utilities or towards protection of the production site is included in Group 710700 Prevention and Treatment of Pollution.

Group 710200 - Waste Management and Recycling

This group covers R&D directed towards management and recycling wastes or waste products considered as a discrete process or as a service to consumers.

R&D directed towards managing sewerage wastes, sewerage treatment (other than concerned with water supply) or towards handling and processing wastes (incl. toxic waste

) and scrap is included in this group. This group has three classes:

710201 - Waste management

710202 - Recycling

710299 - Other

Exclusions:

R&D directed towards:

(a) the industrial processing of wastes and scrap to manufacture new products is included in the appropriate groups in Subdivision 670000 Manufacturing;

(b) sewerage treatment concerned with water supply is included in Group 710100 Electricity, Gas and Water Services and Utilities;

(c) 'clean production' to minimise emissions to the environment from waste management and recycling or towards protection of the production site is included in Group 710700 Prevention and Treatment of Pollution; and

(d) waste management or recycling as an integral process within an industry to prevent impacts of economic development on the environment is included in the relevant groups in the Defence, Economic Development and Society Divisions.

Group 710300 - Wholesale and Retail Trade

This group covers R&D directed towards wholesale and retail trade services. It includes R&D directed towards direct marketing. This group has two classes:

710301 - Wholesale trade

710302 - Retail trade

Exclusions:

R&D directed towards wholesaling or retailing gas supplies to consumers in bottles or in bulk is included in Group 710100 Electricity, Gas and Water Services and Utilities.

Group 710400 - Finance, Property and Business Services

This group covers R&D directed towards the development and provision of the following services:

- finance and investment services including banks, building societies, credit unions, money market dealing, and other services to finance;
- insurance including life insurance, superannuation funds, health and general insurance and services to insurance;
- property services including real estate agents, property operators and developers; and
- other business services including legal and accounting services, advertising, graphic design, market research, business consultancy, secretarial services and plant leasing and hiring.

This group has three classes:

710401 - Finance and investment services

710402 - Insurance services

710403 - Property and business services

Group 710500 - Tourism

This group covers R&D directed towards tourism services. This group has four classes:

710501 - Economic issues

710502 - Socio-cultural issues

710503 - Tourism infrastructure development

710599 - Tourism not elsewhere classified

Group 710600 - Other Commercial Services

This group covers R&D directed towards the development and provision of commercial services not elsewhere classified. It includes R&D directed towards the following:

- recreational services mainly of a commercial nature (e.g. casinos);
- hospitality services (e.g. motels, taverns, restaurants);
- the provision of commercial security services (incl. alarm and surveillance services);
- other commercial services such as video hire outlets, hiring of personal and household goods, laundries and dry cleaners, photography services, funeral parlours, crematoria and cemeteries; and
- other business services not classified elsewhere.

This group has four classes:

710601 - Recreational services

710602 - Hospitality services

710603 - Commercial security services

710699 - Commercial services not elsewhere classified

Exclusions:

R&D directed towards:

(a) security services or surveillance systems for military purposes is included in Group 610100 Defence; and for corrective purposes is included in Group 750500 Justice and the Law;

(b) museums and art galleries is included in Group 700200 Other Information Services; and

(c) music and theatre production, sport and services to sport activities (incl. sporting clubs) and recreational and amusement services mainly of a non-commercial nature (e.g. parks, botanical gardens) is included in Group 750200 Arts and Leisure.

Group 710700 - Prevention and Treatment of Pollution

This group covers R&D directed towards 'clean production' to minimise emissions to the environment from commercial services and tourism or towards protection of the production site. This group has six classes:

710701 - Electricity, gas and water services and utilities

710702 - Waste management and recycling

710703 - Wholesale and retail trade

710704 - Finance, property and business services

710705 - Tourism

710706 - Other commercial services

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Classification Structure - Subdivision 720000 - Economic Framework

(See Division 2, Introduction for more information)

Group	Class	Title
720100		Macroeconomic Issues
	720101	Fiscal policy
	720102	Monetary policy
	720103	Exchange rates
	720104	Balance of payments
	720105	Income policy
	720106	Taxation
	720199	

720200		Macroeconomic issues not elsewhere classified
		Microeconomic Issues
	720201	Microeconomic effects of taxation
	720202	Consumption
	720203	Industrial organisations
	720204	Industry policy
	720205	Industry costs and structure
	720299	Microeconomic issues not elsewhere classified
720300		International Trade Issues
	720301	Trade policy
	720302	Assistance and protection
	720303	International agreements on trade
	720399	International trade issues not elsewhere classified
720400		Management and Productivity Issues
	720401	Marketing
	720402	Industrial relations
	720403	Management
	720404	Productivity
	720499	Management and productivity issues not elsewhere classified
720500		Measurement Standards and Calibration Services
	720501	Defence standards and calibrations
	720502	Manufacturing standards and calibrations
	720503	Service industries standards and calibrations

720599	Measurement standards and calibration services not elsewhere classified
729900	Other Economic Issues
729901	Technological and organisational innovation
729999	Economic issues not elsewhere classified

Definitions

Subdivision 720000 - Economic Framework, covers R&D directed towards the understanding of the economic framework of development or the application of economic theory to assist development.

This subdivision includes R&D directed towards understanding macroeconomic, microeconomic, international trade, management and productivity issues.

It also includes R&D directed towards developing measurement standards and calibrations services which make a contribution to economic framework. This subdivision has six groups:

- 720100 - Macroeconomic Issues
- 720200 - Microeconomic Issues
- 720300 - International Trade Issues
- 720400 - Management and Productivity Issues
- 720500 - Measurement Standards and Calibration Services
- 729900 - Other Economic Issues

Group 720100 - Macroeconomic Issues

This group covers R&D directed towards the understanding of economic relations at the macroeconomic level, including fiscal policy, monetary policy, exchange rates, balance of payments, income policy, taxation and other macroeconomic issues. This group has seven classes:

- 720101 - Fiscal policy
- 720102 - Monetary policy
- 720103 - Exchange rates
- 720104 - Balance of payments
- 720105 - Income policy
- 720106 - Taxation
- 720199 - Macroeconomic issues not elsewhere classified

Group 720200 - Microeconomic Issues

This group covers R&D directed towards understanding economic relations at the microeconomic level, including effects on taxation, consumption, industrial organisations,

industry policy, industry cost and structure and other microeconomic issues. This group has six classes:

720201 - Microeconomic effects of taxation

720202 - Consumption

720203 - Industrial organisations

720204 - Industry policy

720205 - Industry costs and structure

720299 - Microeconomic issues not elsewhere classified

Group 720300 - International Trade Issues

This group covers R&D directed towards understanding issues relating to international trade, including trade policy, assistance and protection and international agreements on trade. This group has four classes:

720301 - Trade policy

720302 - Assistance and protection

720303 - International agreements on trade

720399 - International trade issues not elsewhere classified

Group 720400 - Management and Productivity Issues

This group covers R&D directed towards management and productivity issues. It includes R&D directed towards marketing and industrial relations. This group has five classes:

720401 - Marketing

720402 - Industrial relations

720403 - Management

720404 - Productivity

720499 - Management and productivity issues not elsewhere classified

Group 720500 - Measurement Standards and Calibration Services

This group covers R&D directed towards the development and provision of measurement and calibration standards or services for defence, manufacturing and the service industries. This group has four classes:

720501 - Defence standards and calibrations

720502 - Manufacturing standards and calibrations

720503 - Service industries standards and calibrations

720599 - Measurement standards and calibration services not elsewhere classified

Exclusions:

R&D directed towards the manufacture of scientific equipment or other instrumentation is included in Group 671400 Instrumentation.

Group 729900 - Other Economic Issues

This group covers R&D directed towards understanding other economic issues in the economic framework or towards a contribution to economic framework not elsewhere classified. This group has two classes:

729901 - Technological and organisational innovation

729999 - Economic issues not elsewhere classified

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Division 3 - Society, covers R&D directed towards individual and community well-being or towards general social development.

It includes R&D directed towards the improvement and protection of human health, including clinical treatment, development and provision of public health and health support services.

It includes R&D directed towards the provision of education and training.

This division also includes R&D directed towards social development and community services, including work, arts and leisure, justice and the law, government and politics and the provision of welfare and other public services (other than those concerned with economic development).

It also includes R&D directed towards international relations, heritage, communication, religion and the understanding of past societies and ethical issues relating to social development. This division has three subdivisions:

730000 - Health

740000 - Education and Training

750000 - Social Development and Community Services

Exclusions:

R&D directed towards:

(a) health and safety issues associated with industrial activities is included in Division 2 Economic Development, e.g. safety in construction

industry, is included in Subdivision 680000 Construction; and

(b) the resolution of social and health issues in economic development, e.g. industrial relations and working conditions, is included in Subdivision 720000 Economic Framework, Group 720400 Management and Productivity Issues.

Full details of the classification structure and definitions for each subdivision follow this document.

This section contains the following subsection :

[730000 - Health](#)

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Classification Structure - Subdivision 730000 - Health

(See Division 3, Introduction for more information)

Group	Class	Title
730100		Clinical (Organs, Diseases and Abnormal Conditions)
	730101	Infectious diseases
	730102	Immune system and allergy
	730103	Blood disorders
	730104	Nervous system and disorders
	730105	Endocrine organs and diseases (incl. diabetes)
	730106	Cardiovascular system and diseases
	730107	Inherited diseases (incl. gene therapy)

730108	Cancer and related disorders
730109	Surgical methods and procedures
730110	Respiratory system and diseases (incl. asthma)
730111	Hearing, vision, speech and their disorders
730112	Oro-dental and disorders
730113	Digestive system and disorders
730114	Skeletal system and disorders (incl. arthritis)
730115	Urogenital system and disorders
730116	Reproductive system and disorders
730117	Skin and related disorders
730118	Organs, diseases and abnormal conditions not elsewhere classified
730199	Clinical health not specific to particular organs, diseases and conditions
730200	Public Health
730201	Women's health
730202	Men's health
730203	Health related to ageing
730204	Child health
730205	Substance abuse
730206	Aboriginal and Torres Strait Islander health
730207	Health related to specific ethnic groups
730208	Occupational health (excl. economic development aspects)
730209	Rural health
730210	

	Environmental health
730211	Mental health
730212	Disease distribution and transmission
730213	Preventive medicine
730214	Dental health
730215	Nutrition
730216	Food safety
730217	Health status (e.g. indicators of "well-being")
730218	Social structure and health
730219	Behaviour and health
730220	Injury control
730299	Public health not elsewhere classified
730300	Health and Support Services
730301	Health education and promotion
730302	Nursing
730303	Occupational, speech and physiotherapy
730304	Palliative care
730305	Diagnostic methods
730306	Evaluation of health outcomes
730307	Health policy evaluation
730308	Health policy economic outcomes
730399	Health and support services not elsewhere classified

Subdivision 730000 - Health, covers R&D directed towards human health, including the understanding and treatment of clinical diseases and conditions and the provision of public health and associated support services. This subdivision has three groups:

730100 - Clinical (Organs, Diseases and Abnormal Conditions)

730200 - Public Health

730300 - Health and Support Services

Group 730100 - Clinical (Organs, Diseases and Abnormal Conditions)

This group covers R&D directed towards the clinical aspects of health and medicine. It includes R&D directed towards organ diseases or abnormal conditions and mainly aimed at gaining understanding of causes, effects and treatment of specific conditions. This group has nineteen classes:

730101 - Infectious diseases

730102 - Immune system and allergy

730103 - Blood and disorders

730104 - Nervous system and disorders

730105 - Endocrine organs and diseases (incl. diabetes)

730106 - Cardiovascular system and diseases

730107 - Inherited diseases (incl. gene therapy)

730108 - Cancer and related disorders

730109 - Surgical methods and procedures

730110 - Respiratory system and diseases (incl. asthma)

730111 - Hearing, vision, speech and their disorders

730112 - Oro-dental and disorders

730113 - Digestive system and disorders

730114 - Skeletal system and disorders (incl. arthritis)

730115 - Urogenital system and disorders

730116 - Reproductive system and disorders

730117 - Skin and related disorders

730118 - Organs, diseases and abnormal conditions not elsewhere classified

730199 - Clinical health not specific to particular organs, diseases and conditions

Exclusions:

R&D directed towards preventive medicine and life-style impact on health, the effect of social conditions (e.g. poverty) on the community health, and the social aspects of health (e.g. food safety, nutrition) is included in Group 730200 Public Health.

Group 730200 - Public Health

This group covers R&D directed towards community health or the health of discrete community groups, e.g. aged persons. The primary focus of R&D in this group is on the social and community aspects of health and medicine.

It includes R&D directed towards community support for particular conditions or for discrete groups as they relate to health and medical conditions.

This group also includes R&D directed towards preventive medicine, environmental health (e.g. health factors in constructing an airport) and other broad aspects of public health. This group has twenty one classes:

730201 - Women's health
730202 - Men's health
730203 - Health related to ageing
730204 - Child health
730205 - Substance abuse
730206 - Aboriginal and Torres Strait Islander health
730207 - Health related to specific ethnic groups
730208 - Occupational health (excl. economic development aspects)
730209 - Rural health
730210 - Environmental health
730211 - Mental health
730212 - Disease distribution and transmission
730213 - Preventive medicine
730214 - Dental health
730215 - Nutrition
730216 - Food safety
730217 - Health status (e.g. indicators of "well-being")
730218 - Social structure and health
730219 - Behaviour and health
730220 - Injury control
730299 - Public health not elsewhere classified

Exclusions:

R&D directed towards:

- (a) understanding the causes, effects and treatment of specific clinical conditions is included in Group 730100 Clinical (Organs, Diseases and Abnormal Conditions); and
- (b) the evaluation of health care programs and policies is included in Group 730300 Health and Support Services.

Group 730300 - Health and Support Services

This group covers R&D directed towards community support (incl. community health education and training) in health and medicine. The primary focus of R&D in this group is on the promotion of health education and the evaluation of health programs.

This group includes R&D directed towards health care infrastructure support. This group has nine classes:

730301 - Health education and promotion

730302 - Nursing
730303 - Occupational, speech and physiotherapy
730304 - Palliative care
730305 - Diagnostic methods
730306 - Evaluation of health outcomes
730307 - Health policy evaluation
730308 - Health policy economic outcomes
730399 - Health and support services not elsewhere classified

Exclusions:

R&D directed towards:

- (a) understanding the causes, effects and the treatment of specific clinical conditions is included in Group 730100 Clinical (Organs, Diseases and Conditions); and
- (b) health as it pertains to the general community or discrete groups (e.g. aged persons) is included in Group 730200 Public Health.

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Classification Structure - Subdivision 740000 - Education and Training

(See Division 3, Introduction for more information)

Group	Class	Title
740100		Early Childhood and Primary Education
	740101	Early childhood education
	740102	Primary education
740200		Secondary Education
	740201	Secondary education
740300		Higher Education
	740301	Higher education
740400		Vocational Education and Training

	740401	Vocational education and training
740500		Special Education
	740501	Special education
749900		Other Education
	749901	Occupational training
	749902	Continuing education
	749903	Aboriginal and Torres Strait Islander education
	749904	Education across cultures
	749905	Gender aspects of education
	749906	Education policy
	749999	Education and training not elsewhere classified

Definitions

Subdivision 740000 - Education and Training, covers R&D directed towards general education and training. This subdivision has six groups:

- 740100 - Early Childhood and Primary Education
- 740200 - Secondary Education
- 740300 - Higher Education
- 740400 - Vocational Education and Training
- 740500 - Special Education
- 749900 - Other Education

Exclusions:

R&D directed towards public health education is included in Group 730300 Health and Support Services.

Group 740100 - Early Childhood and Primary Education

This group covers R&D directed towards early childhood and primary school education. This group has two classes:

740101 - Early childhood education

740102 - Primary education

Group 740200 - Secondary Education

This group covers R&D directed towards high school or secondary education. It has the one Class:

740201 - Secondary education

Group 740300 - Higher Education

This group covers R&D directed towards tertiary or post-secondary education. It has the one Class:

740301 - Higher education

Exclusions:

R&D directed towards:

(a) TAFE colleges operation is included in Group 740400 Vocational Education and Training; and

(b) the provision of continuing education is included in Group 749900 Other Education.

Group 740400 - Vocational Education and Training

This group covers R&D directed towards vocational education and training, including technical education and TAFE colleges operation. It has the one Class:

740401 - Vocational education and training

Group 740500 - Special Education

This group covers R&D directed towards special education for the handicapped or disadvantaged children or persons within the public or private school systems or in the workforce.

This group also includes R&D directed towards the education and training of gifted children. It has the one Class:

740501 - Special education

Group 749900 - Other Education

This group covers R&D directed towards the other areas of education and training, including occupational training, continuing education, Aboriginal and Torres Strait Islander education, education across cultures, gender aspects of education, education policy and other education issues not elsewhere classified. This group has seven classes:

749901 - Occupational training
749902 - Continuing education
749903 - Aboriginal and Torres Strait Islander education
749904 - Education across cultures
749905 - Gender aspects of education
749906 - Education policy
749999 - Education and training not elsewhere classified

Exclusions:

R&D directed towards TAFE colleges operation is included in Group 740400 Vocational Education and Training.

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Classification Structure - Subdivision 750000 - Social Development and Community Services

(See Division 3, Introduction for more information)

Group	Class	Title
750100		Work
	750101	Employment
	750102	Changing work patterns
	750103	The professions and professionalisation
	750104	Preserving institutional and organisational histories
	750199	Work not elsewhere classified
750200		Arts and Leisure
	750201	

		The performing arts (incl. music, theatre and dance)
	750202	
		The creative arts
	750203	
		Organised sports
	750204	
		Recreation
	750299	
		Arts and leisure not elsewhere classified
750300		
		Community Service (Excl. Work)
	750301	
		The distribution of wealth
	750302	
		Class
	750303	
		Gender
	750304	
		The aged
	750305	
		Ability and disability
	750306	
		Ethnicity and multiculturalism
	750307	
		Families
	750308	
		National identity
	750309	
		Aboriginal and Torres Strait Islander development and welfare
	750310	
		Carers development and welfare (i.e. carers for the aged, disabled)
	750311	
		Migrant development and welfare
	750312	
		Youth/child development and welfare
	750399	
		Community services not elsewhere classified
750400		
		Religion and Ethics
	750401	
		Religion and society
	750402	
		Religious structures and rituals
	750403	
		Bioethics

	750404	Social ethics
	750405	Environmental ethics
	750406	Business ethics
	750499	Religion and ethics not elsewhere classified
750500		Justice and the Law
	750501	Ownership of the land
	750502	Consumer affairs
	750503	Understanding legal processes
	750504	Law enforcement
	750505	Correctional services
	750599	Justice and the law not elsewhere classified
750600		Government and Politics
	750601	Understanding political systems
	750602	Understanding electoral systems
	750603	Federalism in Australia
	750604	Civics and citizenship
	750605	Public services management
	750699	Government and politics not elsewhere classified
750700		International Relations
	750701	Understanding international relations
	750702	Understanding other countries
	750703	International organisations
	750704	

		International aid
	750799	International relations not elsewhere classified
750800		Heritage
	750801	Preserving the built environment
	750802	Preserving movable cultural heritage
	750803	Urban planning
	750804	Regional planning
	750805	Aboriginal and Torres Strait Islander heritage
	750899	Heritage not elsewhere classified
750900		Understanding Past Societies
	750901	Understanding Australia's past
	750902	Understanding the pasts of other societies
751000		Communication
	751001	Languages and literature
	751002	Languages and literacy
	751003	Visual communication
	751004	The media
	751005	Communication across languages and cultures
	751006	Managing collections
	751099	Communication not elsewhere classified
759900		Other Social Development and Community Services
	759999	Other social development and community services

Definitions

Subdivision 750000 - Social Development and Community Services, covers R&D directed towards community and social services (incl. welfare) to individuals or community groups (e.g. disabled, unemployed) and towards social justice and general equity.

This subdivision includes R&D directed towards arts and leisure, justice and the law, government and politics, international relations, heritage, communication, religion and the understanding of past societies and ethical issues relating to social development. This subdivision has eleven groups:

- 750100 - Work
- 750200 - Arts and Leisure
- 750300 - Community Service (Excl. Work)
- 750400 - Religion and Ethics
- 750500 - Justice and the Law
- 750600 - Government and Politics
- 750700 - International Relations
- 750800 - Heritage
- 750900 - Understanding Past Societies
- 751000 - Communication
- 759900 - Other Social Development and Community Services

Exclusions:

R&D directed towards:

(a) recreational services mainly of a commercial nature (e.g. casino, cinema) is included in Subdivision 710000 Commercial Services and Tourism, Class 710601 Recreational services; and

(b) the provision of community health services and their associated support services is included in the appropriate groups in Subdivision 730000 Health.

Group 750100 - Work

This group covers R&D directed towards aspects of work, such as employment, work patterns, the professions and preserving institutional and organisational histories. This group has five classes:

- 750101 - Employment
- 750102 - Changing work patterns
- 750103 - The professions and professionalisation
- 750104 - Preserving institutional and organisational histories
- 750199 - Work not elsewhere classified

Exclusions:

R&D directed towards:

(a) industrial relations is included in Group 720400 Management and Productivity Issues, Class 720402 Industrial relations; and

(b) occupational health is included in Group 730200 Public Health, Class 730208 Occupational health (excl. economic development aspects).

Group 750200 - Arts and Leisure

This group covers R&D directed towards the arts and related cultural activities. It includes R&D directed towards:

- sport and physical endeavour or other recreation activities not elsewhere classified;
- visual arts, painting, sculpture, dance, drama, the performing arts and music;
- music and theatre production, sound recording and the provision of services to the arts;
- the operation of race tracks, sport grounds and facilities and the provision of services to sport (incl. sporting clubs); and
- the operation of parks, botanical and zoological gardens.

This group has five classes:

750201 - The performing arts (incl. music, theatre and dance)

750202 - The creative arts

750203 - Organised sport

750204 - Recreation

750299 - Arts and leisure not elsewhere classified

Exclusions:

R&D directed towards:

(a) museums and art galleries is included in Group 700200 Other Information Services;

(b) cinemas or motion picture exhibition is included in Group 710600 Other Commercial Services, Class 710601 Recreational Services; and

(c) motion picture (incl. video) production and distribution is included in Group 710600 Other Commercial Services, Class 710699 Commercial Services not elsewhere classified.

Group 750300 - Community Service (Excl. Work)

This group covers R&D directed towards the provision or delivery of community and welfare services to individuals or to defined community groups such as the disabled, aged persons and single parents. This group has thirteen classes:

750301 - The distribution of wealth
750302 - Class
750303 - Gender
750304 - The aged
750305 - Ability and disability
750306 - Ethnicity and multiculturalism
750307 - Families
750308 - National identity
750309 - Aboriginal and Torres Strait Islander development and welfare
750310 - Carers development and welfare (i.e. carers for the aged, disabled)
750311 - Migrant development and welfare
750312 - Youth/child development and welfare
750399 - Community service not elsewhere classified

Exclusions:

R&D directed towards community health education is included in Group 730300 Health and Support Services.

Group 750400 - Religion and Ethics

This group covers R&D directed towards the understanding and analyses of religion and ethical issues of concern to social, scientific or technological development, the application of ethical or moral theory to such issues and the development of codes of behaviour or standards of practice for businesses, professions and trades. It includes R&D in bioethics or biomedical ethics and environmental ethics. This group has seven classes:

750401 - Religion and society
750402 - Religious structures and rituals
750403 - Bioethics
750404 - Social ethics
750405 - Environmental ethics
750406 - Business ethics
750499 - Religion and ethics not elsewhere classified

Exclusions:

R&D directed towards ethics, moral theory or theories of no immediate value to social, scientific or technological development is included in Subdivision 780000 Non-Oriented research, Class 780112 Philosophy and religion.

Group 750500 - Justice and the Law

This group covers R&D directed towards justice and the law. It includes R&D in land ownership, consumer affairs, legal processes, law enforcement and correctional services. This group has six classes:

750501 - Ownership of the land

750502 - Consumer affairs
750503 - Understanding legal processes
750504 - Law enforcement
750505 - Correctional services
750599 - Justice and the law not elsewhere classified

Group 750600 - Government and Politics

This group covers R&D directed towards the understanding and analyses of government and politics. It includes R&D directed towards the understanding of electoral systems, civics and citizenship and public services management. This group has six classes:

750601 - Understanding political systems
750602 - Understanding electoral systems
750603 - Federalism in Australia
750604 - Civics and citizenship
750605 - Public services management
750699 - Government and politics not elsewhere classified

Group 750700 - International Relations

This group covers R&D directed towards improving international relations. This group has five classes:

750701 - Understanding international relations
750702 - Understanding other countries
750703 - International organisations
750704 - International aid
750799 - International relations not elsewhere classified

Exclusions:

R&D directed towards:

(a) international trade or international economic relations is included in Group 720300 International Trade Issues; and

(b) international environmental protection issues is included in the appropriate groups in Subdivision 760000 Environmental Policy Frameworks and Other Aspects.

Group 750800 - Heritage

This group covers R&D directed towards heritage issues, such as preservation and urban and regional planning. This group has six classes:

750801 - Preserving the built environment
750802 - Preserving movable cultural heritage
750803 - Urban planning

750804 - Regional planning
750805 - Aboriginal and Torres Strait Islander heritage
750899 - Heritage not elsewhere classified

Group 750900 - Understanding Past Societies

This group covers R&D directed towards the understanding of past societies. This group has two classes:

750901 - Understanding Australia's past
750902 - Understanding the pasts of other societies

Group 751000 - Communication

This group covers R&D directed towards improving communication. This group has seven classes:

751001 - Languages and literature
751002 - Languages and literacy
751003 - Visual communication
751004 - The media
751005 - Communication across languages and culture
751006 - Managing collections
751099 - Communication not elsewhere classified

Group 759900 - Other Social Development and Community Services

This group covers R&D directed towards social development and community services which are not elsewhere classified. It has the one Class:

759999 - Other social development and community services

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Division 4 - Environment, covers R&D directed towards assessing and sustaining the quality of the environment and its natural resources.

The environment for purposes of this classification refers to 'all surroundings of human beings, whether affecting human beings as individuals or in social groupings'. Source: Environmental Protection (Impact of Proposals) Act 1975.

This division includes R&D directed towards the study of the environment (both of pristine and degraded or altered states) conducted in the context of developing management strategies to sustain the quality of environmental attributes. It also includes studies of the environmental impact of socio-economic activities as well as R&D for the development of social and economic environmental policies. This division has two subdivisions:

760000 - Environmental Policy Frameworks and Other Aspects

770000 - Environmental Management

Exclusions:

R&D directed towards:

(a) the provision of services to improve individual and community health is included in Division 3 Society, Group 730200 Public Health, Class 730210 Environmental health;

(b) social environment is included in Subdivision 750000 Social Development and Community Services; and

(c) 'clean production' to minimise emissions to the environment from industrial processes or towards protection of the production site (e.g. sustainability of agricultural production systems) is included in the relevant Subdivisions and Groups of the Defence, Economic Development

and Society Divisions.

Full details of the classification structure and definitions for each subdivision follow this document.

This section contains the following subsection :

[760000 - Environmental, Policy Frameworks and other Aspects](#)

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Classification Structure - Subdivision 760000 - Environmental Policy Frameworks and Other Aspects

(See Division 4, Introduction for more information)

Group	Class	Title
760100		Environmental Policy, Legislation and Standards
	760101	Global climate change adaptation measures
	760102	Trade and environment
	760103	Consumption patterns, population issues and the environment
	760104	Environmental education and awareness
	760199	Environmental policy, legislation and standards not elsewhere classified
760200		Environmental and Resource Evaluation
	760201	

	Institutional arrangements
760202	Economic incentives and regulation
760203	Rights to environmental and natural resources
760299	Environmental and resource evaluation not elsewhere classified
769900	
	Other Environmental Aspects
769999	Other Environmental aspects

Definitions

Subdivision 760000 - Environmental Policy Frameworks and Other Aspects, covers R&D directed towards the development of social and economic environmental policies. This subdivision also covers R&D directed towards environmental aspects which are not elsewhere classified. This subdivision has three groups:

760100 - Environmental Policy, Legislation and Standards

760200 - Environmental and Resource Evaluation

769900 - Other Environmental Aspects

Exclusions:

R&D directed towards:

(a) the provision of services to improve individual and community health is included in Division 3 Society, Group 730200 Public Health, Class 730210 Environmental health;

(b) social environment is included in Subdivision 750000 Social Development and Community Services; and

(c) environmental management is included in Subdivision 770000 Environmental Management.

Group 760100 - Environmental Policy, Legislation and Standards

This group covers R&D directed towards the development of environmental policy, legislation and standards. This group has five classes:

760101 - Global climate change adaptation measures

760102 - Trade and environment

760103 - Consumption patterns, population issues and the environment

760104 - Environmental education and awareness

760199 - Environmental policy, legislation and standards not elsewhere classified

Exclusions:

R&D directed towards:

(a) the provision of services to improve individual and community health is included in Division 3 Society, Group 730200 Public Health, Class 730210 Environmental health; and

(b) social environment is included in Subdivision 750000 Social Development and Community Services.

Group 760200 - Environmental and Resource Evaluation

This group covers R&D directed towards environmental and resource evaluation. This group has four classes:

760201 - Institutional arrangements

760202 - Economic incentives and regulation

760203 - Rights to environmental and natural resources

760299 - Environmental and resource evaluation not elsewhere classified

Group 769900 - Other Environmental Aspects

This group covers R&D directed towards environmental aspects which are not elsewhere classified. It has the one Class:

769999 - Other environmental aspects

Exclusions:

R&D directed towards environmental management is included in Subdivision 770000 Environmental Management.

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Classification Structure - Subdivision 770000 - Environmental Management

(See Division 4, Introduction for more information)

Group	Class	Title
770100		Climate and Weather
	770101	Climate change
	770102	Climate variability
	770103	Weather
	770199	Other
770200		Atmosphere (Excl. Climate and Weather)
	770201	Atmospheric composition
	770202	

770300		Atmospheric processes
		Marine Environment
	770301	Air quality
	770302	Living resources (incl. impacts of fishing on non-target species)
	770303	Control of pests and exotic species
	770304	Physical and chemical conditions
	770305	Oceanic processes (excl. climate related)
	770306	Integrated (ecosystem) assessment and management
	770307	Marine protected areas
	770399	Other
770400		Coastal and Estuarine Environment
	770401	Air quality
	770402	Land and water management
	770403	Living resources (flora and fauna)
	770404	Control of pests and exotic species
	770405	Physical and chemical conditions
	770406	Integrated (ecosystem) assessment and management
	770407	Remnant vegetation and protected conservation areas (both terrestrial and marine)
	770408	Rehabilitation of degraded coastal and estuarine areas
	770409	Estuarine and lagoon areas
	770499	Other
770500		Urban and Industrial Environment
	770501	Air quality

	770502	Land and water management
	770503	Living resources (flora and fauna)
	770504	Control of pests and exotic species
	770505	Integrated (ecosystem) assessment and management
	770506	Remnant vegetation and protected conservation areas
	770507	Industrial/degraded areas
	770599	Other
770600		High Country (Incl. Mountains)
	770601	Air quality
	770602	Land and water management
	770603	Living resources (flora and fauna)
	770604	Control of pests and exotic species
	770605	Integrated (ecosystem) assessment and management
	770606	Remnant vegetation and protected conservation areas
	770607	Rehabilitation of degraded high country
	770699	Other
770700		Forest and Wooded Lands
	770701	Air quality
	770702	Land and water management
	770703	Living resources (flora and fauna)
	770704	Control of pests and exotic species
	770705	Integrated (ecosystem) assessment and management

	770706	Remnant vegetation and protected conservation areas
	770707	Rehabilitation/reafforestation
	770799	Other
770800		Farmland (Incl. Arable Land and Permanent Crop Land)
	770801	Air quality
	770802	Land and water management
	770803	Living resources (flora and fauna)
	770804	Control of pests and exotic species
	770805	Integrated (ecosystem) assessment and management
	770806	Remnant vegetation and protected conservation areas
	770807	Rehabilitation of degraded farmland
	770899	Other
770900		Sparseland (Incl. Permanent Grassland and the Arid Zone)
	770901	Air quality
	770902	Land and water management
	770903	Living resources (flora and fauna)
	770904	Control of pests and exotic species
	770905	Integrated (ecosystem) assessment and management
	770906	Remnant vegetation and protected conservation areas
	770907	Rehabilitation of degraded sparseland
	770999	Other
771000		Mining Environments
	771001	

		Air quality
	771002	
		Land and water management
	771003	
		Living resources (flora and fauna)
	771004	
		Control of pests and exotic species
	771005	
		Integrated (ecosystem) assessment and management
	771006	
		Remnant vegetation and protected conservation areas
	771007	
		Rehabilitation of degraded mining lands
	771099	
		Other
771100		
		Antarctic and Sub-Antarctic Areas
	771101	
		Air quality
	771102	
		Land and water management
	771103	
		Living resources (flora and fauna)
	771104	
		Control of pests and exotic species
	771105	
		Integrated (ecosystem) assessment and management
	771199	
		Other
779900		
		Other (Incl. Islands)
	779901	
		Air quality
	779902	
		Land and water management
	779903	
		Living resources (flora and fauna)
	779904	
		Control of pests and exotic species
	779905	
		Integrated (ecosystem) assessment and management
	779906	
		Remnant vegetation and protected conservation areas
	779907	
		Rehabilitation of degraded areas

Definitions

Subdivision 770000 - Environmental Management, covers R&D directed towards the study of the environment (both of pristine and degraded or altered states) conducted in the context of developing management strategies to sustain the quality of environmental attributes. It also includes studies of the environmental impact of socio-economic activities. This subdivision has twelve groups:

- 770100 - Climate and Weather
- 770200 - Atmosphere (Excl. Climate and Weather)
- 770300 - Marine Environment
- 770400 - Coastal and Estuarine Environment
- 770500 - Urban and Industrial Environment
- 770600 - High Country (Incl. Mountains)
- 770700 - Forest and Wooded Lands
- 770800 - Farmland (Incl. Arable Land and Permanent Crop Land)
- 770900 - Sparseland (Incl. Permanent Grassland and the Arid Zone)
- 771000 - Mining Environments
- 771100 - Antarctic and Sub-Antarctic Areas
- 779900 - Other (Incl. Islands)

Exclusions:

R&D directed towards 'clean production' to minimise emissions to the environment from industrial processes or towards protection of the production site (e.g. sustainability of agricultural production systems) is included in the relevant Subdivisions and Groups of the Defence, Economic Development and Society Divisions.

Group 770100 - Climate and Weather

This group covers R&D directed towards the expansion of knowledge and understanding of the climate and the weather. Climate for the purpose of this classification refers to a long term average condition of the weather in a given area. This group has four classes:

- 770101 - Climate change
- 770102 - Climate variability
- 770103 - Weather
- 770199 - Other

Exclusions:

R&D directed towards 'clean production' to minimise emissions to the environment from industrial processes is included in the relevant Subdivisions and Groups of the Defence, Economic Development and Society Divisions.

Group 770200 - Atmosphere (Excl. Climate and Weather)

This group covers R&D directed towards the expansion of knowledge and understanding of the atmosphere, including understanding the changes in the upper atmosphere (stratosphere - between 10 and 59 km altitude), ozone concentrations and their effects. This group has two classes:

770201 - Atmospheric composition

770202 - Atmospheric processes

Exclusions:

R&D directed towards 'clean production' to minimise emissions to the environment from industrial processes is included in the relevant Subdivisions and Groups of the Defence, Economic Development and Society Divisions.

Group 770300 - Marine Environment

This group covers R&D directed towards the expansion of knowledge and understanding of the marine environment. This group has eight classes:

770301 - Air quality

770302 - Living resources (incl. impacts of fishing on non-target species)

770303 - Control of pests and exotic species

770304 - Physical and chemical conditions

770305 - Oceanic processes (excl. climate related)

770306 - Integrated (ecosystem) assessment and management

770307 - Marine protected areas

770399 - Other

Exclusions:

R&D directed towards:

(a) understanding of oceanic currents, etc. for naval safety or navigation is included in Group 690200 Water Transport; and

(b) 'clean production' to minimise emissions to the environment from industrial processes is included in the relevant Subdivisions and Groups of the Defence, Economic Development and Society Divisions.

Group 770400 - Coastal and Estuarine Environment

This group covers R&D directed towards enhancing knowledge, awareness and understanding of the coastal and estuarine environment. Coastal refers to an area within 150 km of the coastline. This group has ten classes:

770401 - Air quality

770402 - Land and water management

770403 - Living resources (flora and fauna)

770404 - Control of pests and exotic species
770405 - Physical and chemical conditions
770406 - Integrated (ecosystem) assessment and management
770407 - Remnant vegetation and protected conservation areas (both terrestrial and marine)
770408 - Rehabilitation of degraded coastal and estuarine areas
770409 - Estuarine and lagoon areas
770499 - Other

Exclusions:

R&D directed towards:

(a) understanding of oceanic currents, etc. for naval safety or navigation is included in Group 690200 Water Transport; and

(b) 'clean production' to minimise emissions to the environment from industrial processes is included in the relevant Subdivisions and Groups of the Defence, Economic Development and Society Divisions.

Group 770500 - Urban and Industrial Environment

This group covers R&D directed towards enhancing knowledge, awareness and understanding of the urban and industrial environment. Urban refers to areas where most Australians live, i.e. 92% of people live within 14% of the land area of Australia at an average population density of 13 people/km². This group has eight classes:

770501 - Air quality
770502 - Land and water management
770503 - Living resources (flora and fauna)
770504 - Control of pests and exotic species
770505 - Integrated (ecosystem) assessment and management
770506 - Remnant vegetation and protected conservation areas
770507 - Industrial/degraded areas
770599 - Other

Exclusions:

R&D directed towards 'clean production' to minimise emissions to the environment from industrial processes is included in the relevant Subdivisions and Groups of the Defence, Economic Development and Society Divisions.

Group 770600 - High Country (Incl. Mountains)

This group covers R&D directed towards enhancing knowledge, awareness and understanding of the environment of the high country (incl. mountains). For purposes of this classification, high country (incl. mountains) refers to the area, including the Great Dividing Range and the Great Escarpment, which are above 1000 metres in altitude. This group has eight classes:

770601 - Air quality

770602 - Land and water management
770603 - Living resources (flora and fauna)
770604 - Control of pests and exotic species
770605 - Integrated (ecosystem) assessment and management
770606 - Remnant vegetation and protected conservation areas
770607 - Rehabilitation of degraded high country
770699 - Other

Exclusions:

R&D directed towards 'clean production' to minimise emissions to the environment from industrial processes is included in the relevant Subdivisions and Groups of the Defence, Economic Development and Society Divisions.

Group 770700 - Forest and Wooded Lands

This group covers R&D directed towards enhancing knowledge, awareness and understanding of the environment of forest and wooded lands. Forest land refers to an area of trees which has a foliage projective cover in the tallest stratum of more than 30% or a crown cover of more than 20% of the area and not used primarily for purposes other than forestry. It includes public and private forest, forest in national parks, forest roads and streams, forest nurseries, plantations primarily used for forestry purposes and areas of windbreaks and shelterbelts sufficiently large to be managed as forest. It excludes isolated groups of trees and city parks and gardens. Wooded land refers to an area of trees and/or shrubs which has a foliage projective cover in the tallest stratum of between 10% to 30% or a crown cover of between 10% to 20% of the area. This group has eight classes:

770701 - Air quality
770702 - Land and water management
770703 - Living resources (flora and fauna)
770704 - Control of pests and exotic species
770705 - Integrated (ecosystem) assessment and management
770706 - Remnant vegetation and protected conservation areas
770707 - Rehabilitation/reafforestation
770799 - Other

Exclusions:

R&D directed towards 'clean production' to minimise emissions to the environment from industrial processes is included in the relevant Subdivisions and Groups of the Defence, Economic Development and Society Divisions.

Group 770800 - Farmland (Incl. Arable Land and Permanent Crop Land)

This group covers R&D directed towards enhancing knowledge, awareness and understanding of the environment of farmland (incl. arable land and permanent crop land). Farmland refers to (a) arable land which is land under crops such as cereals, root crops, industrial crops (e.g. cotton, tobacco, oilseeds), vegetables, flowers and ornamental plants; and (b) permanent cropland which is land under orchards, vineyards, olives, etc. Source: OECD Environment Data Compendium (1991). This group has eight classes:

770801 - Air quality
770802 - Land and water management
770803 - Living resources (flora and fauna)
770804 - Control of pests and exotic species
770805 - Integrated (ecosystem) assessment and management
770806 - Remnant vegetation and protected conservation areas
770807 - Rehabilitation of degraded farmland
770899 - Other

Exclusions:

R&D directed towards 'clean production' to minimise emissions to the environment from industrial processes is included in the relevant Subdivisions and Groups of the Defence, Economic Development and Society Divisions.

Group 770900 - Sparseland (Incl. Permanent Grassland and the Arid Zone)

This group covers R&D directed towards enhancing knowledge, awareness and understanding of the environment of sparseland (incl. permanent grassland and the arid zone). Sparseland refers to areas with a population density of less than 1000 people per 8000 km². It includes the arid zone (which receives less than 250 mm of rain a year in the south and 350 mm in the north) as well as the permanent grasslands or rangelands where sheep or cattle graze on native vegetation. Source: D. Cocks (1992) Use with Care, U&NSW Press. This group has eight classes:

770901 - Air quality
770902 - Land and water management
770903 - Living resources (flora and fauna)
770904 - Control of pests and exotic species
770905 - Integrated (ecosystem) assessment and management
770906 - Remnant vegetation and protected conservation areas
770907 - Rehabilitation of degraded sparseland
770999 - Other

Exclusions:

R&D directed towards 'clean production' to minimise emissions to the environment from industrial processes is included in the relevant Subdivisions and Groups of the Defence, Economic Development and Society Divisions.

Group 771000 - Mining Environments

This group covers R&D directed towards enhancing knowledge, awareness and understanding of mining environments. Mining environments are areas where mining is occurring. This group has eight classes:

771001 - Air quality
771002 - Land and water management
771003 - Living resources (flora and fauna)

771004 - Control of pests and exotic species
771005 - Integrated (ecosystem) assessment and management
771006 - Remnant vegetation and protected conservation areas
771007 - Rehabilitation of degraded mining lands
771099 - Other

Exclusions:

R&D directed towards 'clean production' to minimise emissions to the environment from industrial processes is included in the relevant Subdivisions and Groups of the Defence, Economic Development and Society Divisions.

Group 771100 - Antarctic and Sub-Antarctic Areas

This group covers R&D directed towards enhancing knowledge, awareness and understanding of the environment of antarctic and sub-antarctic areas. Antarctic (incl. subantarctic) refers to areas south of latitude 500S, namely Antarctica, Heard Island, Macdonald Island and Macquarie Island. This group has six classes:

771101 - Air quality
771102 - Land and water management
771103 - Living resources (flora and fauna)
771104 - Control of pests and exotic species
771105 - Integrated (ecosystem) assessment and management
771199 - Other

Exclusions:

R&D directed towards 'clean production' to minimise emissions to the environment from industrial processes is included in the relevant Subdivisions and Groups of the Defence, Economic Development and Society Divisions.

Group 779900 - Other (Incl. Islands)

This group covers R&D directed towards enhancing knowledge, awareness and understanding of the environment of other areas not elsewhere classified. This group has eight classes:

779901 - Air quality
779902 - Land and water management
779903 - Living resources (flora and fauna)
779904 - Control of pests and exotic species
779905 - Integrated (ecosystem) assessment and management
779906 - Remnant vegetation and protected conservation areas
779907 - Rehabilitation of degraded areas
779999 - Other

Exclusions:

R&D directed towards 'clean production' to minimise emissions to the environment from industrial processes is included in the relevant Subdivisions and Groups of the Defence, Economic Development and Society Divisions.

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Classification Structure - Subdivision 780000 - Non-Oriented Research

Group	Class	Title
780100		Non-Oriented Research
	780101	Mathematical sciences
	780102	Physical sciences
	780103	Chemical sciences
	780104	Earth sciences
	780105	Biological sciences
	780106	Political science and public policy
	780107	Studies in human society
	780108	

Definitions

Division 5 - Non-Oriented Research, covers R&D which contributes to the general advancement of knowledge. This division should only be used when no specific purpose under any of the other divisions can be identified.

This division can only include R&D which is 'pure basic research'; i.e. R&D efforts which are undertaken to acquire new knowledge without any specific application or looking for long term benefits other than the advancement of knowledge. It has only one group.

Group 780100 - Non-Oriented Research, has nine classes:

780101 - Mathematical sciences
780102 - Physical sciences
780103 - Chemical sciences
780104 - Earth sciences
780105 - Biological sciences
780106 - Political science and public policy
780107 - Studies in human society
780108 - Behavioural and cognitive sciences
780199 - Other

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